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Robinson, Nigel Alexander Julian et al**D. Young & Co.,****21 New Fetter Lane****London EC4A 1DA (GB)****(54) ASSET MANAGEMENT SYSTEM AND ASSET MANAGEMENT METHOD**

(57) In a programme preparation and distribution system (100), metadata indicating the variable information is generated from project to project, from medium to medium, from scene to scene or from frame to frame, to realize an asset management by controlling an archive system (40) depending on metadata. A database is constructed in which the archive system (40) manages metadata in a concentrated fashion along with the essence such as video and audio data. By a distributed programme editing system (10), the metadata inputted at the planning processing and at the casting processing is registered in the database managed in a concentrated

fashion by an archival manager (40A) of the archive system (40), at the same time as a tag specifying the registered metadata is issued. This tag is co-packed with the video and audio information obtained on acquisition by an acquisition system. In a production system (20), the timing to flow the staff roll is specified during the off-line processing in the production system (20). In accordance with the specified timing, the metadata is taken out from the database pointed by the tag co-packed with the video information or the audio information to generate the corresponding character automatically to effect complete editing processing.

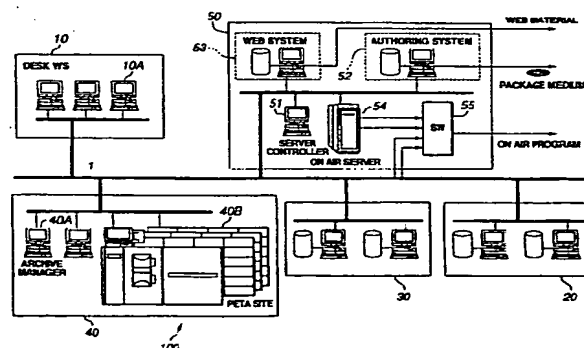


FIG.1

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Description

Technical Field

[0001] This invention relates to a system and a method for asset management for managing an essence. Also, this invention relates to a production system and a production method for creating a project from an essence. Also, this invention relates to an archiving system and an archiving method for archiving an essence. Also, this invention relates to a distribution system and a distribution method for allotting an essence. Also, this invention relates to an authoring system and an authoring method for creating a package medium from an essence. Also, this invention relates to a production system and a production method for creating a programme from an essence. Further, this invention relates to a production system for creating an essence and a control method thereof.

Background Art

[0002] Recently, standardization on metadata is going on in SMPTE (Society of Motion Picture and Television Engineers) and the semantics for an essence specifying the contents or a wrapper meaning metadata and the essence combined together have been defined. Moreover, proposals have been made for the KLV (key length value) protocol or the UMID (unique material identifier) as a data structure of metadata and for a metadata dictionary as a collection of specified metadata per se, and the corresponding standardization is also proceeding.

[0003] Meanwhile, in a broadcasting station, shortage in programme software is posing a problem due to advent of multiple channels and multi-media, so that it is becoming crucial how the programme software is procured to improve the services as the cost is minimized and as the programme quality, that is the quality of the contents, is maintained. This is tantamount to how video/audio data can be processed efficiently in the sequence of the processing operations from acquisition and preparation until editing, transmission and archiving, such that medium asset management including a structure of an archiving system for re-utilization of past programmes is an incumbent task.

Disclosure of the Invention

[0004] It is therefore an object of the present invention to provide an asset management system and an asset management method for managing the essence so that a sequence of operations from acquisition and formulation until editing, transmission and archiving will be managed efficiently.

[0005] It is another object of the present invention to provide a production system and a production method which can create a project from an essence efficiently.

[0006] It is another object of the present invention to provide an archiving system and an archiving method which can archive an essence efficiently.

[0007] It is another object of the present invention to provide a distribution system and a distribution method which can allot the essence efficiently.

[0008] It is another object of the present invention to provide an authoring system and an authoring method which can create a package medium efficiently from an essence.

[0009] It is another object of the present invention to provide an asset management system and an asset management method which can manage an essence efficiently.

[0010] It is a further object of the present invention to provide a production system for creating an essence efficiently and a control method thereof.

[0011] In its one aspect, the present invention provides an asset management system for managing an essence, including means for creating the essence and for generating metadata for explaining the essence when creating the essence, means for archiving the essence and the metadata correlatively with each other, and means for controlling an operation performed on the archived essence based on the metadata to realize asset management for the essence.

[0012] In another aspect, the present invention provides an asset management system for managing an essence, including means for generating the information for explaining the essence, means for recording and/or reproducing the essence and the information correlatively with each other, and means for managing and/or controlling a recording and/or reproducing operation of the essence based on the information to effect asset management for the essence.

[0013] In another aspect, the present invention provides an asset management system for managing an essence, including means generating the information specifying attributes of the essence, recording the essence and the information correlatively with each other on a recording medium to reproduce the essence from the recording medium and control means for controlling the recording and/or reproducing operations for the essence based on the information to effect asset management for the essence.

[0014] In another aspect, the present invention provides an asset management method for managing an essence, including creating the essence and for generating metadata for explaining the essence when creating the essence, correlating the essence and the metadata with each other, and controlling an operation performed on the archived essence based on the metadata to realize asset management for the essence.

[0015] In another aspect, the present invention provides an asset management method for managing an essence, including generating the information for explaining the essence and controlling the recording and/or reproducing operation of recording and/or reproduc-

ing the essence and the information correlatively with each other based on the information to effect asset management for the essence.

[0016] In another aspect, the present invention provides an asset management method for managing an essence, including generating the information specifying attributes of the essence, recording the essence and the information correlatively with each other on a recording medium and controlling the recording and/or reproducing operations for the essence based on the information to effect asset management for the essence.

[0017] In its one aspect, the present invention provides a production system for creating a project from an essence; production for creating the essence and for generating metadata for accounting for the essence; and post-production of creating the project from the essence using metadata generated at the time of the production.

[0018] In another aspect, the present invention provides a production system for creating a project from an essence; production for creating the essence and for generating metadata for accounting for the essence; and post-production of creating the project from the essence; wherein an operation of the post-production is controlled based on metadata generated at the time of the production.

[0019] In another aspect, the present invention provides a production method for creating a project from an essence; creating the essence and generating metadata used for accounting for the essence; and creating the project from the essence using the metadata.

[0020] In another aspect, the present invention provides a production method for creating a project from an essence; creating the essence and generating metadata used for accounting for the essence; and controlling an operation of post-production based on the metadata to create the project from the essence.

[0021] In its one aspect, the present invention provides a production system for creating a project from an essence; comprising: pre-production for creating metadata used for accounting for the essence; production for performing an operation for creating the essence, using the metadata; and post-production for creating the project from the essence.

[0022] In another aspect, the present invention provides a production system for creating a project from an essence, comprising: a pre-production for creating metadata used for accounting for the essence; a production for creating the essence and for storing the essence and the metadata correlatively with each other on a recording medium; and a post-production for creating the project from the essence; wherein an operation in the production is performed using the metadata generated at the time of the pre-production.

[0023] In its one aspect, the present invention provides an archiving system for archiving an essence, comprising: production for creating the essence and for generating metadata used for accounting the essence;

archiving means for archiving the essence and the metadata correlatively with each other; and means for controlling the archiving means so that an operation for the essence will be performed using the metadata.

[0024] In another aspect, the present invention provides an archiving system for archiving an essence, comprising: production for creating the essence and for generating metadata used for accounting the essence; archiving means for archiving the essence and the metadata correlatively with each other; and controlling means for controlling the archiving means so that asset management for the essence archived by the archiving means will be performed based on the metadata.

[0025] In another aspect, the present invention provides a method for archiving an essence, comprising: creating the essence and generating metadata used for accounting the essence; performing an operation for the essence using the metadata; and archiving and essence and the metadata correlatively with each other.

[0026] In another aspect, the present invention provides a method for archiving an essence, comprising: creating the essence and generating metadata pertinent to the essence; and performing control based on the metadata so that an asset management for the essence archived will be performed to archive the essence and the metadata correlatively with each other.

[0027] In its one aspect, the present invention provides a distribution system for allotting an essence, comprising: a production for creating the essence and for generating metadata pertinent to the essence; a post-production for performing postproduction processing on the essence; and distribution means for allotting the essence using metadata generated at the time of the production.

[0028] In another aspect, the present invention provides a distribution system for allotting an essence, comprising: a production for creating the essence and for generating metadata pertinent to the essence; a post-production for performing post-production processing on the essence; and distribution means for allotting the essence; wherein an operation of the distribution means is controlled using the metadata used at the time of the production.

[0029] In another aspect, the present invention provides a distribution method for allotting an essence, comprising: creating the essence and generating metadata pertinent to the essence; performing post-production processing on the essence; and allotting the essence using metadata generated at the time of the production.

[0030] In another aspect, the present invention provides a distribution method for allotting an essence, comprising: creating the essence and generating metadata pertinent to the essence; performing post-production processing on the essence; and controlling an operation of distribution, using the data, to allot the essence.

[0031] In its one aspect, the present invention pro-

vides an authoring system for creating a package medium from an essence, comprising: a production for creating the essence and for generating metadata pertinent to the essence; a post-production for performing post-production on the essence; and authoring means for creating the package medium from an essence processed with post-production, using metadata generated at the time of the production.

[0032] In another aspect, the present invention provides an authoring method for creating a package medium from an essence, comprising: creating the essence and generating metadata pertinent to the essence; performing post-production on the essence; and creating the package medium from an essence processed with post-production using metadata.

[0033] In another aspect, the present invention provides an authoring method for creating a package medium from an essence, comprising: generating metadata pertinent to the essence; creating the essence; performing post-production on the essence; and creating the package medium from an essence processed with post-production using the metadata.

[0034] In its one aspect, the present invention provides an asset management system for managing an essence, comprising: a pre-production for generating metadata indicating the rights of the essence and; a production for creating the essence; asset management means for performing asset management processing on the essence; and means for controlling the asset management means so that a circulation operation of the essence will be performed based on the metadata.

[0035] In another aspect, the present invention provides an asset management system for managing an essence, comprising: means for creating the essence and for generating metadata specifying rights pertinent to the essence; asset management means for performing asset management processing on the essence; and means for controlling the asset management means, based on the metadata, so that a circulating operation of the essence will be performed based on the metadata.

[0036] In another aspect, the present invention provides an asset management method for managing an essence, comprising: generating metadata indicating the rights of the essence; creating the essence; and performing control based on the metadata so that a circulating operation of the essence will be performed to effect asset management processing on the essence.

[0037] In another aspect, the present invention provides an asset management method for managing an essence, comprising: creating the essence and for generating metadata specifying rights pertinent to the essence; and performing control based on the metadata so that a circulation operation of the essence will be performed to effect asset management processing for the essence.

[0038] In its one aspect, the present invention provides a production system for creating a programme

from an essence, comprising: a production for creating the essence and for generating UMID (unique material identifier) for discriminating the essence; a post-production for editing the essence for generating the programme; and means for controlling an operation in the post-production based on the UMID.

[0039] In another aspect, the present invention provides a production method for creating a programme from an essence, comprising: creating the essence and for generating UMID (unique material identifier) for discriminating the essence; and controlling an operation in the post-production based on the UMID to edit the essence to generate the programme.

[0040] In its one aspect, the present invention provides a production system for creating an essence, comprising: means for generating a plurality of metadata which are data pertinent to the essence and which are respectively identified by SMPTE (Society of Motion Picture and Television Engineers) labels; means for receiving the essence and the plural metadata and analyzing the SMPTE labels to extract pre-set metadata from the plural metadata; and means for controlling the processing relevant to the essence based on the extracted metadata.

[0041] In another aspect, the present invention provides a control method of a production system for creating an essence, comprising: generating a plurality of metadata which are data pertinent to the essence and which are respectively identified by SMPTE (Society of Motion Picture and Television Engineers) labels; receiving the essence and the plural metadata and analyzing the SMPTE labels to extract pre-set metadata from the plural metadata; and controlling the processing relevant to the essence based on the extracted metadata.

Brief Description of the Invention

[0042] Fig.1 shows a system structure showing the structure of a programme creation and distribution system embodying the present invention.

[0043] Fig.2 shows a system structure showing the structure of a production system in the programme creation and distribution system.

[0044] Figs.3A and 3B schematically show a data structure of the SDI format.

[0045] Figs.4A and 4B schematically show a data structure of the SDTI format.

[0046] Fig.5 schematically shows a data structure of the SDTI-CP format.

[0047] Fig.6 schematically shows a data structure of the KLV format.

[0048] Fig.7 schematically shows a data structure of UMID.

[0049] Fig.8 shows contents of a metadata dictionary which is a dictionary rule taking a universal label standardized in the SMPTE298M into keys.

[0050] Fig.9 shows the contents of a metadata dictionary.

[0051] Fig.10 shows the contents of a metadata dictionary.
 [0052] Fig.11 shows the contents of a metadata dictionary.
 [0053] Fig.12 shows the contents of a metadata dictionary.
 [0054] Fig.13 shows the contents of a metadata dictionary.
 [0055] Fig.14 shows the contents of a metadata dictionary.
 [0056] Fig.15 shows the contents of a metadata dictionary.
 [0057] Fig.16 shows the contents of a metadata dictionary.
 [0058] Fig.17 shows the contents of a metadata dictionary.
 [0059] Fig.18 shows the contents of a metadata dictionary.
 [0060] Fig.19 shows the contents of a metadata dictionary.
 [0061] Fig.20 shows the contents of a metadata dictionary.
 [0062] Fig.21 shows the contents of a metadata dictionary.
 [0063] Fig.22 shows the contents of a metadata dictionary.
 [0064] Fig.23 shows the contents of a metadata dictionary.
 [0065] Fig.24 shows the contents of a metadata dictionary.
 [0066] Fig.25 shows the contents of a metadata dictionary.
 [0067] Fig.26 shows the contents of a metadata dictionary.
 [0068] Fig.27 shows the contents of a metadata dictionary.
 [0069] Fig.28 shows the contents of a metadata dictionary.
 [0070] Fig.29 shows the contents of a metadata dictionary.
 [0071] Fig.30 shows the contents of a metadata dictionary.
 [0072] Fig.31 shows the contents of a metadata dictionary.
 [0073] Fig.32 shows the contents of a metadata dictionary.
 [0074] Fig.33 shows the contents of a metadata dictionary.
 [0075] Fig.34 shows the contents of a metadata dictionary.
 [0076] Fig.35 shows the contents of a metadata dictionary.
 [0077] Fig.36 shows the contents of a metadata dictionary.
 [0078] Fig.37 shows the contents of a metadata dictionary.
 [0079] Fig.38 schematically shows the structure of an asset management system along with the processing

sequence of the programme creation and distribution operation in the programme preparation and distribution system.

[0080] Fig.39 is a flowchart for illustrating the programme preparation distribution operation in the programme preparation and distribution system.

Best Mode for Carrying Out the Invention

[0081] Referring to the drawings, preferred embodiment of the present invention are explained in detail.

[0082] The present invention is applied to a programme preparation and distribution system 100 configured as shown for example in Fig.1.

[0083] This programme preparation and distribution system 100 includes a distributed, programme editing system 10, connected over a gigabit Ethernet 1, a production system 20, a news system 30, an archive system 40, a programme distribution system 50 and an acquisition system 60 for acquiring the video or audio to be furnished to the production system 20.

[0084] The programme preparation and distribution system 100 is a system for so-called pre-production processing prior to shooting in which a producer or a director and the staff members consult as to the programme distribution contents. The persons concerned in preparing a programme are adapted to consult on the programme distribution contents through plural workstations connected to the gigabit Ethernet 1.

[0085] The production system 20 is a system for shooting and programme preparation by image or speech collection and includes a recording management system 21 in which recording staff members input necessary items, a production management system 22, an ingest system 23 for storing the video or audio acquired by the acquisition system 60, a coding system 24 for coding processing of the speech or the audio, an editing/processing system 25 for editing the speech or the audio, and a CG creation system 26 for displaying an image in superposition by computer graphics (CG) to create a weather map or letters, as shown for example in Fig.2.

[0086] The recording management system 21 is made up of plural workstations 21A, connected to the gigabit Ethernet 1, and is adapted to permit a news writer to enter an article through the workstations 21A. The production management system 22 is made up e.g., of a device controller 22A and an A/V server 22B, connected to the gigabit Ethernet 1. The ingest system 23 is made up of a reproducing device 23A for reproducing the video or audio recorded on a video tape, a telecine device 23B for converting an image imaged on a film into video signals, and a plurality of ingest clients 23C connected to the gigabit Ethernet 1, and is configured for storing the video or the audio acquired by the acquisition system 60 through the reproducing device 23A and the telecine device 23B on the ingest clients 23C. The coding system 24 is made up of a coding controller 24A, an

MPEG encoder 24B and an MPEG decoder 24C, connected to the gigabit Ethernet 1. The editing/processing system 25 is made up of an off-line editing device 25A, an on-line editing device 25B, a video processing device 25C and an audio processing device 25D.

[0087] The news system 30 is a system for collectively managing the news information and manages on-air items and materials, that is manages which material is undergoing which stage of processing.

[0088] The archive system 40 is a system preserving video and audio data, and includes an archive manager 40A and a petasite 40B, connected to the gigabit Ethernet 1. In the petasite 40B are preserved essence and metadata.

[0089] The programme distribution system 50 includes a server controller 51, an authoring system 52, a web system 53 and an on-air server 54, connected to the gigabit Ethernet 1. The programme distribution system 50 also includes a routing switch 55 for selecting the on-air programme.

[0090] The acquisition system 60 is made up of a video camera 61, a relaying car 62 etc.

[0091] This programme preparation and distribution system 100 is a picture processing system in which a broadcasting station, a video producing firm etc has the functions of recording the video or the audio, referred to below as material, editing and processing these materials to prepare a picture for distribution, and of preserving the pictures. In the picture processing steps, such as recording, editing or preserving the materials, the supplementary information for discriminating the materials in detail is inputted to the recording medium or a dedicated recording server in the picture processing steps, such as recording, editing or preserving the materials.

[0092] As the supplementary information, metadata is used. The metadata denotes data for stating the necessary information for discriminating the materials obtained on recording, such as recording time, recording ID, recording title, or the name of a photographer or a reporter.

[0093] In the present programme preparation and distribution system 100, the transmission format used in transmitting video or audio data or the metadata is the SDI (Serial Digital Interface) as a digital transmission format standardized by SMPTE. Fig.3A shows the structure of the entire SDI format data.

[0094] The SDI format includes a 4-dot EAV (End of Video) area, indicating the end of synchronization, a 268-dot AND (ancillary) area, a 4-dot SAV (start of video) area, indicating start synchronization, and a 140-dot active video area, and is made up of 525 lines. The numerals entered in parentheses indicate the values defined in accordance with the PAL (phase alternation line) system.

[0095] The active video area includes a 9-line vertical blanking portion (VBK₁), a 10-line optional blanking portion (OBK₁), a 244-line active video portion (ACV₁), a

9-line vertical blanking portion (VBK₂), a 10-line optional blanking portion (OBK₂) and a 243-line active video area (ACV₂).

[0096] The SDI is a format for transmitting the non-compression digital data, such as D1 or D2 format, in which audio data is stored in an ancillary area and video data such as D1 or D2 is stored in the active video area. In the SDI format, metadata are transmitted by being inserted into the ancillary area.

[0097] Fig.3B shows one line of the SDI format. In transmission, data with 10 bits per line is transmitted on parallel/serial conversion and transmission path encoding.

[0098] As the transmission format for transmitting video, audio and metadata in the picture processing system, there are an SDTI (Serial Digital Transfer Interface) format for transmitting the data compressed by the MPEG system or the DV system, or the SDTI-CP (Serial Digital Transfer Interface - Content Package) format, which is further limited from SDTI format, may be used in addition to the above-described SDI format.

[0099] Fig.4A shows a data structure of the SDTI format. Similarly to the SDI format, the SDTI format has a 4-dot EAV (end of video) area, indicating the end synchronization, a 268-dot ANC (ancillary) area and a 4-dot SAV (Start of Video) area, indicating the start synchronization. However, in the SDI format, the active video area, constituted by 525 lines in the SDI format, is defined to be the payload area. It is noted that numerals in parentheses indicate values defined by the PAL (phase alternation line) system.

[0100] In the SDTI format, the payload area has blank data portions (BDT₁, BDT₂) and data portions (DT₁, DT₂). However, the number of lines in each data portion is not defined.

[0101] Fig.4B shows a line of the SDTI format. When data is transmitted by the SDTI format, data of 10 bit width per line is transmitted on parallel/serial conversion and transmission path encoding.

[0102] In the SDTI format, 53-word SDTI header data, in which to insert the transmission source address, destination address and the line number. CRC etc, is contained in the ancillary area. In the SDTI format, the metadata is inserted into an area of the ancillary area excluding the SDTI header data.

[0103] Fig.5 shows a data area of the SDTI-CP format data structure. The packet structure in the SDTI-CP is further limitation of the SDTI format and modifies the payload structure to facilitate insertion of variable data.

[0104] The data transmitted by the SDTI-CP format includes not only MPEG (Moving Picture Experts Group) 2 video elementary stream, but a variety of data, such as supplementary data, including audio data or metadata, which may be transmitted collectively with the MPEG2 Video Elementary Stream.

[0105] The data inserted into the payload is partitioned by "items", while the variable data is included in each item. Specifically, there are four sorts of items,

namely a System Item, a Picture Item, an Audio Item and an Auxiliary Item.

[0106] The System Item has areas such as System Item Bitmap, Content Package rate, SMPTE Universal Label, Package Metadata Set, Picture Metadata Set, Audio Metadata Set and Auxiliary Metadata Set.

[0107] In the SDTI-CP format, metadata is inserted into Package Metadata Set, Picture Metadata Set, Audio Metadata Set and Auxiliary Metadata Set for transmission.

[0108] The metadata is the inherent data added and inputted to discriminate materials such as video and audio data, and is transmitted in accordance with the KLV (Key Length Value) consistent with the SMPTE standard and also in accordance with the UMID (Unique Material Identifier) data format.

[0109] The KLV format is the data transmitting format having three areas, namely a 16-byte Universal Label Data Key stating the Universal Label Data, a Value Length indicating the data length of metadata stored in the Value area and a Value in which to store the actual metadata corresponding to the SMPTE Dictionary. Fig. 6 shows the KLV format.

[0110] The Universal Label Data Key is a data area for applying unique labelling to stored metadata. The Universal Label Data Key is further divided into a UL (Universal Label) Header area, including a 1-byte Object ID, and a 1-byte UL (Universal Label) Size, a UL (Universal Label) Designators area, including a UL (Universal Label) Code, SMPTB Design, Registry Design, Data Design and Reference Version, each being 1-byte, and a 9-byte Data Element Tag area.

[0111] The UMID is an identifier uniquely determined for discriminating video data, audio (speech) data and other material data. Fig. 7 shows a UMID data structure.

[0112] The UMID is made up of a Basic UMID as ID for discriminating material data made up of a sequence of pictures, speech and metadata, referred to below as contents, and Extended UMID as a signature for discriminating the respective contents in the material data.

[0113] The Basic UMID has a 32-byte data area, which is made up of a 12-byte Universal Label area, a 1-byte Length Value area, a 3-byte Instance Number area and a 16-byte material Number area.

[0114] The Universal Label area has codes for discriminating digital data stored therein, as standardized in detail in SMPTE-298M. The Length Value area denotes the length of UMID. Since the Basic UMID differs in code length from Extended UMID, the Basic UMID is denoted by 13h and the Extended UMID is denoted by 33h. The Instance Number area indicates whether or not the material data has been processed with overwrite processing or editing processing. The Material Number area has three areas, in which are stored codes for distinguishing material data.

[0115] The Time Snap, indicated by 4 bytes, denotes the number of snap clock samples per day. That is, it denotes the time of preparation of the material data in

terms of clocks as unit. The 8-byte Rnd (random number) is a random number which prevents duplex numbers from being affixed in case incorrect time is set or in case the network address of an equipment defined by IEEE (The Institute of Electrical and Electronics Engineers) is changed.

[0116] On the other hand, the Extended UMID is made up of 8-byte Time/Date Code for discriminating the time and the date of preparation of a material in question, 12-byte Spatial Co-ordinates, defining the correction concerning the time of preparation of the material (time difference information) or the position information represented by the latitude, longitude or altitude, 4-byte Alphanumeric Code (Country) defining the name of a nation 4 by abbreviated alphabetical letters or symbols, 4-byte Alphanumeric Code (Organization) defining a name of an organization, and 4-byte Alphanumeric Code (User) defining the name of a user who prepared a material.

[0117] It is noted that metadata indicating the picture size, generation number etc is not contained in the above-described Basic UMID or Extended UMID. In particular, the Material Number is not indicative of the other information concerning the status or the picture of a material. The metadata indicating the picture size or the generation number is transmitted based on the KLV format.

[0118] It is noted that, in a metadata dictionary, which is the dictionary provisions which have taken the universal label standardized in the SMPTE 298M into keys, the metadata having the following data elements are prescribed:

[0119] That is, there are prescribed, as names of data elements corresponding to the SMPTE label, class 11D and locators (IDENTIFIERS & LOCATORS), globally unique ID (Globally Unique Identifiers), UMID video (UMID Video), UMID audio (UMID Audio), UMID data (UMID Data), UMID system (UMID System), International Broadcasting Organization ID (International Broadcasting Organization Identifiers), organization division (Organization Identifiers), Programme ID (Programme Identifiers), UPID (UPID), UPN (UPN), media ID (Physical Media Identifier), tape ID (Tape Identifier), EBU ID NO (IBTN), ISO ID (ISO Identifiers), ISO audio visual NO (ISAN), ISO book NO (ISBN), ISO serial NO (ISSN), ISO musical work code (ISWC), ISO printed music NO (ISMN), ISO commercial ID (ISCI), ISO recording code (ISRC), ISO report NO (ISRN), ISO term synopsis (ISBD), ISO textual work code (ISTC), digital object ID (DOI), compound ID (Compound IDs), serial item and contribution ID (SICI), serial item and contribution ID (SICI), book item and component ID (SICI), audio visual item and component ID (AICI), distributot ID (PII), object ID (Object Identifiers) and Internet global unique ID (GUID), as shown with #1 to #33 in Fig. 8.

[0120] There are also prescribed, as names of data elements corresponding to the SMPTE label (GUID and SMPTE label identifiers), meta data object ID (MobID),

details of the object ID (Definition object identifiers), details of the object ID (DefinitionObject identifiers), container version indication (GenerationAUID), CNIR (CNRI Handles), device ID (Device Identifiers), device designation (Device Designation), device preparation (Device Make), device model (Device Model), device serial NO (Device Serial Number), globally unique locators (Globally Unique Locators), unique resource ID (UR locators (and "Identifiers")), unique resource locators (URL), unicolor URL string (URLString), continuation URL(PURL), resource name (URN), media locator (Media locators), local ID (Local Identifiers), administrative identifiers (Administrative identifiers), transmitting ID (Transmission Identifiers) archive identifier (Archive Identifier), item ID (Item ID), accounting reference NO (Accounting Reference), Transmission Billing (Traffic), physical media ID (Physical Media Identifiers), film code (Film codes), reel NO (Reel/Roll number), tape ID (tape number), object ID (Object Identifiers) and locally unique ID (LUID), as shown with #34 to #66 in Fig.9.

[0121] There are also prescribed, as data element names corresponding to the SMPTE labels, slot ID (SlotID), object text ID (Object text identifiers), name of group (Mob_name), name of slot (SlotName), object name (DefinitionObject_Name), local locators (Local Locators), local media locator (Local Media locators), local file path (Local File Path), film locator (Film Locators), edge code (Edge Code), frame code (Frame Code), key code (Key Code), Ink No (Ink number), segment start code (EdgeCode_Start), proxy locator (Proxy locators); proxy key text (Key text), proxy key frame (Key Frame), proxy key sound (Key Sound), key data (Key data or programme), free writing (Free-form, human readable locator), free writing name (TextLocator_Name), title (Titles), title kind (Title kind), main title (Main Title), subtitle (Secondary title), series NO (Series number), episode NO (Episode Number), scene number (Scene Number), take NO (Take Number), owner (Unique IPR Identifiers), owner by CISAC (IPI (SUISA/CISAC)), natural person/legal entity (Natural Person/legal entity) and ID by AGICOA (AGICOA/MPAA), as shown with #67 to #99 in Fig.10.

[0122] There are also prescribed, as names of data elements associated with the SMPTE label, AGICOLA ID (AGICOLA/MPAA Identifier), class 2 administration (ADMINISTRATION), supplier (Supplier), source organization (Source Organization), contract NO (Supply contract number), original producer name (Original Producer Name), product (Product), the total number of episodes in a series (Total number of Episodes in a Series), rights (Rights), copyright (Copyright), copyright status (Copyright Status), copyright owner (Copyright Owner), intellectual rights (Intellectual Rights), intellectual rights type (IP type), details of IP rights (IP Rights), legal personalities (Legal personalities), owner (Rights Owner), rights management authority (Rights Management Authority), interested parties (Interested Parties), ancillary information to property rights (IP Rights options), maxi-

mum number of usages (Maximum Number of Usages), licence options (Licence options), financial information (Financial information), currency (Currency), payments and costing (Payments and costing), royalty information (Royalty Financial Information), profit information (Income), royalty financial information (Royalty Financial Information), access permission (Permitted Access), access level (Restrictions on Use), security (Security) and degree of technical access (System Access), as shown with #100 to #132 in Fig.11.

[0123] There are also prescribed, as names of data elements associated with the SMPTE label, a user name (Username), a user name (User Name), a password (Password), a password (Password), a motion picture film (Film), a scramble key kind (Scramble key kind), a scramble key value (Scramble key value), a publication outlet (Publication Outlet), a broadcast outlet information (Broadcast), broadcaster (Broadcaster), a name (Name), a channel (Channel), a transmission medium (Transmission Medium), a broadcast region (Broadcast Region), broadcast and repeat statistics (Broadcast and Repeat Statistics), a first broadcast flag (First Broadcast Flag), a repeat number (Repeat Number), a current repeat number (Current repeat number), a previous repeat number (Previous repeat number), a rating (Rating), an audience rating (Audience rating), an audience reach (Audience reach), other ratings (Other ratings), participating parties (Participating parties), representative persons (Persons (Groups and Individuals)), nature of person (Group of individuals) (Nature of Person (Group of individuals)), support and administration (Support and Administration), support and administration staffs (Support/Administration Status), organizations and public bodies (Organizations or Public Bodies) and kinds of organizations and public bodies (Kind of Organizations or Public Bodies), as shown with #133 to #165 in Fig.12.

[0124] There are also prescribed, as names of data elements associated with the SMPTE label, a production (Production), a film labo (Contribution Status), support and administration (Support and Administration), a support and administration staff (Support and Administration Status), job function information (Job Function Information), a job function (Job Function), a role (Role/Identity), contact information (Contact Information), contact kind (Contact kind), contact department (Contact Department), representative (Person or Organization Details), person name (Person name), a family name (Family name), a first given name (First Given name), a second given name (Second Given name), a third given name (Third Given name), a group name (Group name), a main name (Main name), a supplementary name (Supplementary name), an organization name (Organization name), a main name (Main name), a supplementary organization name (Supplementary organization name), a class 3 interpreter (INTERPRETATIVE), fundamental information (Fundamental), countries (Countries), an ISO 3166 country code (ISO

3166 Country Code System), an ISO 3166 country code (ISO 3166 Country Code System), an ISO language code (ISO language code), an ISO language code (ISO language code), interpretative parameters (Data Interpretations), OS characteristics (Operating system interpretations), a fundamental 4 definitions (Fundamental Dimensions) and length (Length), as shown with #166 to #198 in Fig.13.

[0125] There are also prescribed, as names of data elements associated with the SMPTE label, a length system (Length System), a length system (Length System), a length unit (Length Unit), a length unit (Length Unit), a time system (Time System), a time system (Time System), a time unit (Time Unit), a time unit (Time Unit), a mass (Mass), an energy (Energy), human assigned (Descriptive-Human Assigned), categorization (Categorization), content classification (Content Classification), a type (Type), a genre (Genre), target audience (Target Audience), cataloguing (Cataloguing and Indexing), catalogue history (Catalogue History), current status of metadata (Status of Data Set), current status of metadata (Status of Data Set), ID in use (Cataloguing, Indexing or Thesaurus system used), a theme (Theme), a genre (Genre), a sub-code (Subject Code), a keyword (Keywords), a key frame (Key Frame), key sounds (Key Sounds), key data (Key data), textural description (Textural Description), an abstract (Abstract), a purpose (Purpose) and description (Description), as shown with #199 to #231 in Fig.14.

[0126] There are also prescribed, as names of data elements associated with the SMPTE label, a color descriptor (Color descriptor), a format descriptor (Format descriptor), a stratum (Stratum), a stratum kind (Stratum kind), supplementary information (Supplementary Information), assessments (Assessments), awards (Awards), individual (Individual), a programme (Programme), qualitative values (Qualitative Values), asset values (Asset Values), content value (Content Value), cultural quality (Cultural Quality), aesthetic value (Aesthetic Value), historic value (Historic Value), technical value (Technical Value), other values (Other Values), descriptors (Descriptors (Machine Assigned or Computed)), categorization (Categorization), content classification (Content Classification), cataloguing (Cataloguing and Indexing), catalogue history (Catalogue History), current status of metadata (Status of Data Set), cataloguing (Cataloguing and Indexing), a keyword (Keywords), a key frame (Key Frame), key sounds (Key Sounds), key data (Key data), textural description (Textural Description), a stratum (Stratum), a stratum kind (Stratum kind), a class 4 parameter (PARAMETRIC) and video encoding parameters (Video Essence Encoding Characteristics), as shown with #232 to #264 in Fig. 15.

[0127] There are also prescribed, as names of data elements associated with the SMPTE label, video fundamental characteristics (Video Fundamental Characteristics), a video source device (Video Source Device),

OE conversion system (Fundamental opto-electronic formulation), gamma characteristics (gamma information), gamma equation (Gamma Equation), gamma (Gamma), luminance equation (Luma Equation), colorimetry code (Colorimetry Code), scanning information (Fundamental sequencing and scanning), a component sequence (Signal Form Code), color frame index (Color Field Code), a vertical rate (Vertical Rate), a frame rate (Frame Rate), image dimensions (Image dimensions), number of lines (Image lines), a total number of lines per frame (Total Lines per frame), active lines/frame (Active Lines per frame), leading lines (Leading Lines), trailing lines (Trailing Lines), horizontal and vertical dimensions (Horizontal and Vertical dimensions), an aspect ratio (Display Aspect Ratio), an image aspect ratio (Image Aspect Ratio), a capture aspect ratio. (Capture aspect ratio), a stored height (Stored Height), a stored width (StoredWidth), a sampled height (Sampled Height), a sampled width (Sampled Width), a sampled X offset (Sampled X Offset), a sampled Y offset (Sampled Y Offset), a display height (Display Height), a display width (Display Width), and a display X offset (Display X Offset), as shown with #265 to #297 in Fig.16.

[0128] There are also prescribed, as names of data elements associated with the SMPTE label, a display Y offset (Display Y Offset), video coding characteristics (Video Coding Characteristics), an analogue video system (Analogue Video System), a luminance sampling rate (Luminance Sample Rate), active samples per line (Active Samples per Line), total samples per line (Total Samples per Line), bits per pixel (Bits per Pixel), sampling information (Sampling Information), a sampling hierarchy code (Sampling Hierarchy Code), horizontal sampling ratio (Horizontal Subsampling), color siting (ColorSiting), a rounding method code (Rounding Method Code), a filtering code (Filtering Code), a sampling structure (Sampling Structure), sampling structure code (Sampling Structure Code), a frame layout (FrameLayout), line field information (VideoLineMap), alpha transparency (AlphaTransparency), a component width (ComponentWidth), black reference level (BlackReferencelevel), white reference level (WhiteReferencelevel), color dynamic range (ColorRange), a pixel layout (PixelLayout), a color palette (Palette), pallet layout (PalletLayout), number of same data in the horizontal direction of original signals (Is Uniform), number of stored neighboring bytes (Is Contiguous), JPEG table (JPEG Table ID), TIFF parameters (TIFFDescriptor_Summary), MPEG coding characteristics (MPEG coding characteristics), MPEG-2 coding characteristics (MPEG-2 coding characteristics), field frame type code (Field Frame Type Code) and film parameters (Film parameters), as shown with #298 to #330 in Fig. 17.

[0129] There are also prescribed, as names of data elements associated with the SMPTE label, a film to video parameters (Film to Video parameters), field dominance (Field Dominance), frame phase sequence

(Framephase sequence), film pulldown characteristics (Film Pulldown characteristics), a pulldown sequence (pulldown sequence), a pulldown phase (Pull down phase), a pulldown kind (Pulldown kind), a pulldown direction (Pulldown Direction), a pulldown phase (Phase Frame), a film frame rate (Film Frame Rate), 24.00 fps (Capture Film Frame Rate), 23.976 fps (Transfer Film Frame rate), special frame rate (FilmDescriptor_Framerate), film characteristics (Film characteristics), film aperture characteristics (Film capture aperture), film color process (Film Color Process), edge code format (Code-Format), header text (Header), video and film test parameters (Video and Film test parameters), video test parameters (Video test parameters), Test parameters (Test parameters), a test result (real number) (Test Result (real)), test result (integer) (Test Result (integer)), storage alignment (Video digital storage alignment), buffer size on frame storage (Image Alignment Factor), client fill start (Client Fill Start), client fill end (Client Fill End), padding bits (Padding Bits) and audio essence encoding characteristics (Audio Essence Encoding Characteristics), as shown with #331 to #363 in Fig.18.

[0130] There are also prescribed, as names of data elements associated with the SMPTE label, audio fundamental characteristics (Audio Fundamental Characteristics), audio source device (Audio Source Device), fundamental audio formulation (Fundamental audio formulation), audio channel division (Electro-spatial formulation), audio filtering characteristics (Filtering applied), audio reference level (Audio reference level), number of audio channels in mix (Number of audio channels in mix), number of mono channels (Mono channels), number of stereo channels (Stereo channels), number of tracks (Physical Track number), a film sound source (Film sound source), optical track (Optical track), magnetic track (Magnetic track), analogue audio coding characteristics (Analogue Audio Coding Characteristics), an analogue system (Analogue system), audio sampling characteristics (Digital Audio Sampling Characteristics), sample rate (Sample rate), clock frequency (Reference clock frequency), bits per sample (Bits per sample), a rounding law (Rounding law), dither (Dither), audio coding characteristics (Digital Audio Coding Characteristics), a coding law (Coding law), number of layers (Layer number), an average bit rate (Average Bit rate), a fixed bitrate (Fixed bitrate), audio test parameters (Audio test parameters), SNR (Signal to noise ratio), weighting (Weighting), audio summary information (Audio summary information), AIFC format summary (AIFCDescriptor_Summary), WAVE format summary (WAVEDescriptor_Summary) and an encoding method (Data. Essence Encoding Characteristics), as shown with #364 to #396 in Fig.19.

[0131] There are also prescribed, as names of data elements associated with the SMPTE label, fundamental characteristics (Data Essence Fundamental Characteristics), information of original source signals (Analogue Data Essence Coding Characteristics), analogue

data coding (Analogue Data Coding), digital coding characteristics (Digital Data Coding Characteristics), original recording data (Data test parameters), metadata encoding characteristics (Metadata Encoding Characteristics), metadata fundamental characteristics (metadata fundamental characteristics), time code characteristics (Timecode Characteristics), time code kind ((Timecode kind), time code kind ((Timecode kind), a drop frame (Drop), LTC/VITC (Source Type), time code time base (Timecode Timebase), frames/sec (FPS), user bit ON/OFF (Timecode User bit flag), start address (Start), time code sampling rate (TimecodeStream_Sample Rate), time code data itself (Source), time code with sync signal (IncludeSync), analogue metadata information (Analogue Metadata Coding Characteristics), an analogue metadata carrier (Analogue Metadata Carrier), digital metadata information (Digital Metadata Coding Characteristics), digital metadata carrier (Digital Metadata Carrier), metadata test characteristics (Metadata test parameters), system and control Encoding characteristics (System & Control Encoding Characteristics), system and control fundamental characteristics (System & Control Fundamental Characteristics), original analogue signal information (Analogue System & Control Coding Characteristics), analogue system (Analogue System & Control Coding), original digital signal information (Digital System Coding Characteristics), digital metadata information (Digital System Metadata Sampling Characteristics), original signal metadata characteristics. (System. Metadata test parameters) and general encoding characteristics (general encoding characteristics), as shown with #397 to #429 in Fig.20.

[0132] There are also prescribed, as names of data elements associated with the SMPTE label, general essence encoding characteristics (General Essence Encoding Characteristics), a sampling rate (Samplerate), a length (Length), container encoding characteristics (Container encoding characteristics), byte sequence (ByteOrder), storage medium parameters (Storage Medium parameters), a tape cartridge format (Tape cartridge format), video tape gauge (Videotape gauge and format), tape size (FormFactor), a signal form (VideoSignal), a tape format (TapeFormat), recording length (Length), tape manufacturer (TapeDescriptor_ManufacturerID), a tape model (Model), disc recorder parameters (Disc recorder parameters), disc kind (Disc kind and format), film medium parameters (Film Medium Parameters), film stock manufacturers (Film stock manufacturers), a film stock. type (Film Stock type), perforation information (PerforationPerFrame), a film kind (FilmKind), a film format (FilmFormat), a film aspect ratio (FilmAspectRatio), manufacturer (Manufacturer), a model (Model), a film gauge (Film gauge and format), (Object Characteristics (Placeholder)), device characteristics (Device Characteristics), camera characteristics (Camera Characteristics), optical characteristics (Optical Characteristics), focal length (Focal length), a

CCD size (Sensor Size), and a lens aperture (Lens Aperture), as shown with #430 to #462 in Fig.21.

[0133] There are also prescribed, as names of data elements associated with the SMPTE label, a CCD size of original signals (Sensor Type Code), a field of view (Field of View), special lens (Anamorphic lens characteristics), optical test parameters (Optical Test Parameters), sensor characteristics (Optical sensor characteristics), flare characteristics (Flare), microphone characteristics (microphone Characteristics), a sensor type (Sensor type), polar characteristics (Polar characteristics), image characteristics (Image Characteristics), an image category (Image Category), class 5 creation process (PROCESS), process status flag (Process Indicators), fundamental information (Fundamental), shot, clip, segment indication (Integration Indication), a quality flag (Quality Flag), physical instance category (Physical Instance Category), capture (Capture), digital or analogue origination (Digital or analogue origination), microphone position (Microphone Placement techniques), dubbing information (Manipulation), number of times of change (Simple Flagging), copy numbers (Copy Number), a clone number (Clone Number), work in progress flag (Work in Progress Flag), analogue digital mixing (Digital or analogue mix), payload compression hysteresis (Downstream Processing History), a video compression history (Video Compression History), a video compression algorithm (Video Compression Algorithm), compression hysteresis data set (MPEG2 dynamic coding historical dataset), a noise reduction algorithm (Video Noise Reduction Algorithm), and compression (Compression), as shown with #463 to #495 in Fig. 22.

[0134] There are also prescribed, as names of data elements associated with the SMPTE label, audio compression history (Audio Compression History), audio compression algorithm (Audio Compression Algorithm), audio compression history data (MPEG-2 Audio Dynamic coding history), a noise reduction algorithm (Audio Noise Reduction Algorithm), a data compression history (Data Compression History), metadata compression history (Metadata Compression History), MPEG process (MPEG processing), splicing metadata (Splicing Metadata), correction of the essence (Enhancement of Modification), correction of video signals (Video processing), description of correction (Enhancement of Modification Description), device designation (Video processor settings (Device-specific)), device kind (Device kind), device parameters (Device parameters), device parameter setting (Device parameter setting), audio processing (Audio processing), description of correction (Enhancement of Modification Description), audio processor settings (Device-specific), a device kind (Device kind), device parameters (Device parameters), device parameter setting (Device parameter setting), correction of data (Data processing), description of correction (Enhancement of Modification Description), data processor settings (Data processor set-

tings (Device-specific)), a device kind (Device kind), device parameters (Device parameters), device parameter setting (Device parameter setting), editing information (Editing Information), editing version information (Editing version information), file format version (Version), editing details (Editing decisions), a file format version (Version), editing details (Editing decisions), contents of change (RelativeScope) and change slot (RelativeSlot), as shown with #495 to #528 in Fig.23.

[0135] There are also prescribed, as names of data elements associated with the SMPTE label, an original signal group (SourceMobSlotID), fade information default (DefFadeType), editing matte information (Editing matte information), editing event information (Editing event information), comment (Event_Comment), event ON/OFF information (ActiveState), edit effect information (Edit effect information), audio fade-in type (FadeInType), audio fade-out type (FadeOutType), control point (ControlPoint_Value), a constant value (ConstantValue_Value), hint 'Edithint', transient information (IsTimeWarp), category information (Category), input segment number (NumberInputs), bypass information (Bypass), editing web information (Editing web information), start (BeginAnchor), end (Endanchor), editing user notes (Editing user notes), tag information (TaggedValue_Name), value information (TaggedValue_Value), class 6 inter-data information (RELATIONAL), relation (Relationship), relation kind (Relatives), correlative values (Essence to Essence), a source material (source material), UMID (Source material UMID), a source material (source material), most recent edit text (Most Recent Edit text), and most recent edit UMID (Most recent edit UMID), as shown with #529 to #561 in Fig.24.

[0136] There are also prescribed, as names of data elements associated with the SMPTE label, metadata to essence (Metadata to Essence), metadata to metadata (Metadata to Metadata), object to object (Object to Object), metadata to object (Metadata to Object), relation to production materials (Related production material), programme support material (Programme support material), relation to advertising material (Programme advertising material), relation to CM (programme commercial material), numerical sequence (Numerical sequence), numerical sequence in sequence (Numerical sequence in sequence), offset information (Relative position in sequence (value)), preview, next information (Relative position in sequence (value)), preview, next information (Relative position in sequence (descriptive)), structural relationship (Relationship structures), relationship in contents (Containing relations), contents themselves (Contains one), a still frame (Still Frame), a hot spot matte (Hot Spot Matte), annotation (Annotation), translation (Rendering), pull-in (InputSegment), Selection (Selected), effect on transition (Operation Group), web addresses (Manufacturing Info), content group (Content), content description (Dictionary), essence description (Essence Description), segment description (Segment), contains set (contains set), param-

eters (Parameters), alternate segments (Alternates), group (Mobs), and essence data (Essence Data), as shown with #562 to #594 in Fig.25.

[0137] There are also prescribed, as names of data elements associated with the SMPTE label, properties (Properties), locators (Locators), class definition (class definitions), type definition (type definitions), operating definitions (Operation Definitions), parameter definitions (Parameter Definitions), data definitions (Data Definitions), plugin descriptors (Plugin Descriptors), codec descriptions (codec descriptions), container description (Container Definitions), interpreter description (Interpolator Definitions), comments (Comments), contains order set (Contains order set), different format specifications (Choices), input segments (Input Segments), nesting information (NestedScope_Slots), components (Components), locators (Locators), ID lists (Identification List), group slot (Mob_Slots), point values (PointList), contains stream of data (Contains stream of data), data (Data), ID (Sample Index), weak reference relation (Weak reference relation), weak reference to one object (Weak reference to one object), generation (Generation), data definition (Data Definition), operational definition (Operational Definition), source ID (SourceID), kind of effect (Control Point_Type), post-editing ID (Operation Definition_DataDefinition) and control type (Parameter Definition_Type), as shown with #595 to #627 in Fig.26. There are also prescribed, as names of data elements associated with the SMPTE label, property (Property Definition_Type), category (Category Class), file descriptors (FileDescriptor Class), group name (MobID), container format (Container Format), description on parameters (Definition), parameter types (Parameter_type), interpretation (Interpolation), data type (TaggedValue_Type), strong relevance of objects (Type Definition Strong Object Reference_Referenced Class), weak relevance of objects (Type Definition Weak Object Reference_Referenced Class), underline element type (Type Definition PixdArray_Element Type), variable array element type (Type Definition PixdArray_Element Type), fixed array element type (Type Definition VariableArray_Element Type), description on element type (Type Definition String_Element Type), a string element (Type Definition String_Element Type), a stream element (Type Definition Stream_Element Type), weak reference set (Set of weak references), plugin descriptors (Plugin Descriptors), parameters (ParametersDefined, data definitions (Data Definitions), an ordered set of weak references (Ordered set of weak references), degradation of properties (Degrade To), member types (Member Types), class relations (Class Relations), parent class (Parent class), parent class (Parent class), child class (Child class), instances of class (Instance of class), an object class (Object Class), and metadata object definitions (Metadata object definitions), as shown with #628 to #660 in Fig.27.

[0138] There are also prescribed, as names of data elements associated with the SMPTE label, property

(Property definition), hint (Is Searchable), essential/optional (Is Optional), default conditions (Default Value), local ID (local Identification), type definition (Type definition), size (Size), specified size (Is Signed), element name (TypeDefinitionEnumeration_Element Names), element name (Type Definition Enumeration_Element Values), number of arrays (Element Count), member names (Member Names), name of extension (Type Definition Extendible Enumeration_Element Names), name of extension (Type Definition Extendible Enumeration_Element Vales), instance description (Instance descriptions), description (Description), container definitions (Container definitions), essence labels (Essence Is Identified), code objects (Related Code Objects), plugin code objects (Relations to plugin code objects), name (Name), plug-n (Plugin Descriptor_Identification), description (Description), version number (Version Number), a version string (Version String), manufacturers (Manufacturer), manufacturer ID (Manufacturer ID), platforms (Platform), platform versions (Min Platform Version), platform OS versions (Max Platform Version), plugin engines (Engine), mini engine version (MinEngine Version) and max engine version (MaxEngine Version), as shown with #661 to #693 in Fig.28.

[0139] There are also prescribed, as names of data elements associated with the SMPTE label, API plugin (Plugin API), mini plugin of API (Mini Plugin API), max plugin API (Max Plugin API), software (Software Only), accelerator (Accelerator), authentication (Authentication), relation to application codes (Relation to application code objects), company name (Company Name), product name (Product Name), product number (Product ID), a product version (Product Version), product version string (Product Version String), a toolkit version (Toolkit Version), a platform (Platform), class 7 space time (SPATIO-TEMPORAL), position and space vectors (Position and Space Vectors), an image coordinate system (Image Coordinate System), map datum used (Map Datum Used), an absolute position (Absolute Position), local datum absolute position (Local Datum Absolute Position), local datum absolute position accuracy (Local Datum Absolute Position Accuracy (m)), a device code (device altitude (m)), a device code (device altitude (meters, concise)), device latitude (Device Latitude (degrees)), device latitude (Device Latitude (degrees, concise)), device longitude (Device Longitude (degrees)), device longitude (Device Longitude (degrees, concise)), device size (X) (device X Dimension(m)), device size (Y) (device Y Dimension(m)); a subject absolute position (Subject Absolute Position) and frame position accuracy (Frame Position Accuracy (m)), as shown with #694 to #726 in Fig.29.

[0140] There are also prescribed, as names of data elements associated with the SMPTE label, a frame centre latitude (Frame Centre Latitude (degrees), a frame centre latitude (Frame Centre Latitude (degrees, concise), a frame centre longitude (Frame Centre Longitude (degrees), a frame centre longitude (Frame Cen-

tre Longitude (degrees, concise), a frame centre longitude (Frame Centre Longitude (degrees), a frame centre latitude longitude (Frame Centre Lat-Long), a relative position (Relative Position), a local datum relative position (Local Datum Relative Position), local datum relative position accuracy (Local Datum Relative Position Accuracy), a device relative position (Device Relative Position), device relative position accuracy (Device Relative Position Accuracy), a device relative position (X) (Device Relative Position X (meters)), a device relative position (Y) (Device Relative Position Y (meters)), a device relative position (Z) (Device Relative Position Z (meters)), a device relative position (Device Relative Position), subject relative positional accuracy (Subject Relative Positional Accuracy (meters)), image position information (Image Position Information), a position within viewed image x coordinate (pixels) (position within viewed image x coordinate (pixels)), a position within viewed image y coordinate (pixels) (position within viewed image y source image centre (x pixel), source image centre (x pixel) (Source image centre x coordinate (pixels)), source image centre (y pixel) (Source image centre y coordinate (pixels)), a view port image centre (x pixel) (Viewport image e centre x coordinate (pixels)), a view port image centre (y pixel) (Viewport image centre y coordinate (pixel (y pixel)s)), rate and direction of positional change (Rate and Direction of Positional Change), device rate and direction of positional changes (Device Rate and Direction of Positional Changes), an absolute device rate and direction of positional changes (Absolute Device Rate and Direction of Positional Changes), device movement speed (Device Absolute Speed (meters/sec)), device heading (Device Absolute Heading (degrees)), relative device rate and direction of positional change (Relative Device Rate and Direction of Positional Change), device relative speed (Device Relative Speed (metres/sec)), device relative setting (Device Relative Setting (degrees)), subject rate and direction of positional change (Subject Rate and Direction of Positional Change), absolute subject rate and direction of positional change (absolute subject rate and direction of positional change) and subject absolute speed (metres/sec)), as shown with #727 to #759 in Fig. 30.

[0141] There are also prescribed, as names of data elements associated with the SMPTE label, subject absolute heading (subject absolute heading (degrees)), subject absolute heading (Subject Absolute Heading (degrees)), relative subject rate and direction of positional change (Relative Subject Rate and Direction of Positional Change), subject relative speed (Subject Relative Speed (metres/sec)), subject relative heading (subject relative heading (degrees)), angular specifications (angular specifications), device angles (Device angles), sensor roll angle (degrees) (Sensor Roll Angle (degrees)), an angle to north (Angle to North (degrees)), an obliquity angle (Obliquity Angle (degrees)), subject angles (Subject Angles (degrees)), distance measure-

ments (Distance Measurements), a device to subject distance (Device to Subject Distance), a slant range (slant range (metres)), distance (Dimensions), subject dimensions (Subject Dimensions), a target width (Target Width), essence positions (Studio and Location Dimensions), media dimensions (Media Dimensions), a physical media length (Physical Media Length (metres)), image size (Image Dimensions), pan and scan image dimensions (Pan and Scan Image Dimensions), a viewport height (Viewport height), a viewport width (Viewport width), abstract locations (Abstract Locations), place names (Place Names), gazetteer used (Gazetteer used), specified names (Place keyword), country codes (Country Codes), object country code (Object Country Code), country code of shoot (Country Code of Shoot), country code of setting (Country Code of Setting (Characterised Place)), country code of copyright license (Country Code of Copyright License) and country code of IP license (Country Code of IP License), as shown with #760 to #792 in Fig.31.

[0142] There are also prescribed, as names of data elements associated with the SMPTE label, regions in a country (Regions), regions of object (Region of Object), regions of shoot (Regions of Shoot), regions of setting (region of setting (Characterised Place)), region or area of Copyright License (Region or Area of Copyright License), region or area of IP License (Region or Area of IP License), a postal address (Postal Address), room numbers (Room Number), street number or building name (Street Number or Building Name), streets (Street), a postal town (Postal Town), city (City), state or province or county (State or Province or County), postal code (Postal Code), country (Country), setting addresses (Setting Address (Characterised Place)), setting room numbers (setting room number), setting street number or building name (Setting Street Number or Building name), setting streets (Setting Street), setting towns (Setting Town), setting city (Setting City), setting state of province or county, (Setting State of Province or County), a Setting postal code (Setting Postal Code), setting country (Setting Country), setting description (Setting Description), electronic addresses (Electronic Address), telephone number (Telephone Number), fax number (FAX Number), e-mail address (e-mail address), date and time information (Date and Time) and material date and time (Material Date and Time), as shown with #793 to #825 in Fig.32.

[0143] There are also prescribed, as names of data elements associated with the SMPTE label, operational date and time (Operational Date-Time Stamps), creation date and time (Creation Date-Time Stamps), creation date and time (Creation Date-Time Stamps), last modified data and time (Last Modified Date-Time Stamps), user defined date and time (User Defined Date-Time Stamps), user defined date and time (User Defined Date-Time Stamps), absolute date and time (Absolute Date and Time), start date and time (Start Date and Time), end date and time (End Date and Time).

segment start date and time (Segment Start Date and Time), segment end date and time (Segment End Date and Time); relative date and time (Relative Date and Time), media start date and time (Start Date and Time), media end date and time (End Date and Time), segment start date and time (Segment Start Date and Time), segment end date and time (Segment End Date and Time), time interval (Material Durations), absolute time interval (Absolute Durations), time duration of contents (Time Duration), segment time duration (Segment Duration), frame counts (Frame Count), segment frame counts (Segment frame count), textless black duration (Textless Black Duration), relative durations (Relative Durations), time duration (Time Duration), segment duration (Segment Duration), film frame interval (Frame Count), segment frame count (Segment frame count), rights date and time (Rights Date and Time), copyrights date and time (Copyright Date and Time), IP rights date and time (IP rights date and times) and license date and time (License date and times), as shown with #826 to #858 in Fig.33.

[0144] There are also prescribed, as names of data elements associated with the SMPTE label, option start date and time (Option start date and time), license end date and time (License end date and time), option end date and time (Option end date and time), rights durations (Rights Durations), copyrights durations (Copyrights Durations), IP rights durations (IP Rights Durations), license durations (License durations), optional durations (Option duration), cataloguing date and time (Cataloguing date and time), creation date and time (Creation date and time), last modified date and time (Last Modified), event date and time (Event Date and Time), absolute date and time of event (Absolute Date and Time), start date and time of event (Start Date and Time), project start date and time (Project Mission Start Date and Time), scene start date and time (Scene Start Date and Time), shot start date and time (Shot Start Date and Time), broadcast start date and time (Broadcast Start Date and Time), absolute end times (Absolute end times), project mission end date and time (Project Mission End Date and Time), scene end date and time (Scene End Date and Time), shot end date and time (Shot End Date and Time), broadcast end date and time (Broadcast End Date and Time), relative date and time (Relative Date and Time), event relative start date and time (Relative Start Times), project relative start date and time (Project Mission Start Date and Time), scene relative start date and time (Scene Start Date and Time), shot relative start date and time (Shot Start Date and Time), broadcast relative start date and time (Broadcast Start Date and Time), relative end time (Relative End Times), project relative end date and time (Project Mission End Date and Time), scene relative end date and time (Scene End Date and Time) and shot relative end date and time (Shot End Date and Time), as shown with #859 to #891 in Fig.34.

[0145] There are also prescribed, as names of data

elements associated with the SMPTE label, relative broadcast end date and time (Broadcast End Time), event duration information (Event Durations), absolute duration information (Absolute Durations), absolute event time duration (Time Duration), relative durations (Relative Durations), relative event time durations (Time Duration), editing date and time (Editing Date and Time), editing length (Length), editing position (Position), relative start time (StartTime), speech fade-in length (FadeInLength), speech fade-out length (Fade Out Length), cutpoint standard (Cut Point), time standard (Time), last edit date and time (last Modified), ID of last modified results (LastModified), last creation date and time (Last Modified), ID of last modified results (Last Modified), date and time of last creation (Creation Time), speech soft cut default standard (Default Fade Edit Unit), event time unit standard (Event Mob Slot_Edit Rate), slot time unit standard (Timeline Mob Slot_EditRate), date of final correction (Identification_Date), slot origin (Origin), process date and time (Process Date and time), technical modification date and time (Technical Modification date and time), simple correction date and time (Editorial Modification date and time), broadcast date and time (Broadcast Date and Time), cassation date and time (Cassation Date and Time), setting date and time (Characterised Time Period), term of validity of keywords (Time Period Keyword Thesaurus), time unit of keyword (Time Period of Keyword), delay time (Delay) and the encoding/decoding information (Encoding/Decoding Information), as shown with #892 to #924 in Fig.35.

[0146] There are also prescribed, as names of data elements associated with the SMPTE label, encoding delay (Encoding Delay), decoding delay (Decoding Delay), buffer delay (Buffer Delay), latency information (Latency), temporal information (Temporal Shape (Shuttering etc) (PLACEHOLDER)), shutter characteristics (Shutter characteristics (placeholder)), shutter speed (Shutter speed (placeholder)), shutter gating characteristics (Shutter Gating (placeholder)), class 14 user data (USER ORGANIZATION REGISTERED), publicly registered user organization metadata (publicly registered user organization metadata), private metadata (Privately registered user organization metadata), metadata for US Department of Defence Agency (DoD Metadata), UAV metadata (UAV metadata), RQ1A metadata (RQ1A metadata), RQ1A closed caption metadata (RQ1A closed caption Set) and class 15 experimental metadata (experimental metadata), as shown with #925 to #940 in Fig.36.

[0147] In this programme preparation and distribution system, essence data and metadata are converted into the MXF file format when transmitted on the gigabit Ethernet 1. For example, there are occasions wherein the video essence recorded on a recording medium becomes a sole MXF file or a sole MXF file is prepared from a sole video programme, wherein the unit of the essence can be freely set depending on the application.

[0148] A metadata MXF file 200 is made up of a pre-

amble portion 201 for stating metadata, a main portion (body portion) 202 for stating the essence data, an index portion 203 containing an index table and a postamble unit 204, as shown in Fig.37.

[0149] The preamble portion 201 is made up of a universal label 205, an allocation table 206 and an overall metadata area 207. The universal label 205 of this metadata MXF file 200 has the same syntax structure as the universal label of the KLV coding. The allocation table 206 is a table on which is registered the allocation information of each object in the overall metadata area 207.

[0150] The overall metadata area 207 is an area in which is stated metadata registered in a metadata dictionary which is the dictionary provision in which the universal label standardized in the SMPTE 298M is taken into keys. A Header_Object 210 is a root object for indicating each object of this overall metadata area 207. Specifically, there are provided in the node of this Header_Object 210 Identification_Object 211, Master_Metadata_Object 212, Source_Metadata_Object 213 and Essence_Data_Object 214. Since the master essence is made up of plural sorts of source essences, metadata concerning the master essence and metadata concerning the source essence are expressed by another object in this overall metadata area 207.

[0151] The Master_Metadata_Object 212 is an object containing metadata for explaining the properties of each essence contained in this metadata MXF file 200 and pointers for pointing to a Master_Timeline_Track_Objects 215. The Master_Timeline_Track_Objects 215 is an object which defines and explains tracks contained in this metadata MXF file 200 and which points to a Master_Clip_Object 216. A track herein means a unit set from one essence sort, such as video or audio, to another, whilst clip means an editing clip provided for respective in- and out-points in essence editing and has a unit different from that of a scene. The Master_Clip_Object 216 is an object containing metadata indicating which source material is being used, and also containing a pointer indicating the Source_Metadata_Object 213.

[0152] The Source_Metadata_Object 213 is an object provided for each source essence constituting a master essence and is an object containing metadata concerning the source essence and a pointer indicating a Source_Timeline_Track_Object 217. The Source_Timeline_Track_Object 217 is an object set from one track of each source essence to another and includes metadata concerning each track and a pointer for indicating a Source_Clip_Object 218. The Source_Clip_Object 218 is an object set from one clip contained in each track constituting each source essence, and includes metadata concerning the clip and a pointer for indicating an Essence_Clip 219. Therefore, the Essence_Clip 219 is an object containing data of clips constituting the essence.

[0153] In this programme preparation and distribution system 100, programme preparation and distribution

processing is carried out in accordance with a work flow shown in Figs.38 and 39.

[0154] That is, in the work flow of this programme preparation and distribution system 100, the pre-production processing executed by the distributed programme editing system 10 is shown as a programme planning processing PLN in which an acquisition processing ACQ is carried out by the acquisition system 60 and the material storage (ingestion) processing ING, editing processing ED, CG generating processing (CG creation) processing CGC and audio creation processing AUC are carried out to prepare a distribution programme. On the distribution programme, so prepared, the program distribution processing DST and the programme archiving processing are executed by the programme distribution system 50 and by the archive system 40, respectively,

[0155] In this programme preparation and distribution system 100, metadata indicating the variable information is generated from project to project, from medium to medium, from scene to scene or from frame to frame, to realize an asset management by controlling the archive system 40 depending on metadata.

[0156] Among the metadata generated from project to project, there are metadata indicating variable information, such as main title (Main Title), secondary title (Secondary Title (Sub-Title)), series (Series Number), episodes (Episode), original (Original Bock/Title), author (Original Author/Writer), director (Director), right (Right) or copyright (Copyright).

[0157] Among metadata generated from medium to medium, there are metadata indicating variable information, such as real (roll) number (Real Number (Roll Number)), or frame rate (Frame rate).

[0158] Among metadata generated from scene to scene, there are metadata indicating the variable information, such as performers (Cast Actor/Actress), elements (Elements), screen play (Screen Play), scene description (Scene Description), sets (Set), properties (Properties), unit/crew/staff (Unit/Crew/Staff), camera setup data (Camera Setup Data), writing information (Writing Info), video format (Video Format), audio format (Audio Format), audio channel assignment (Audio Channel Assignment), motion capture data (motion capture data), comment (Comment), telecine data (Telecine Data), composers of sound track (SoundTrack(Music)), song writers (Song Writer), an arranger (Arranger), compositing information (Compositing Info), visual effect (Visual Effects), sound effects (Sound. Effects), V-Chip information (V-chip information) or generation (Generation (Number of copies)).

[0159] Among metadata generated from frame to frame, there are metadata indicating variable information, such as scene number (Scene Number), shot number (Shot Number), take number (Take Number), OK shot/NG shot (OK shot/NG shot), UMID (video) (UMID for video essence), UMID (audio) (UMID for audio essence), UMID (others) (UMID for Others), places

(Places), GPS latitude (GPS Latitude), GPS longitude (GPS Longitude), GPS altitude (GPS Altitude), camera ID (Camera ID), camera lens (Camera Lens Data), lens ID (Lens ID), focus (Focus), zoom (Zoom), iris (Iris), tripod angle information (Tripod), tripod ID (Head ID), pan (Pan), tilt (Tilt), roll (Roll), dolly position information (Dolly), arm height (Arm Height), position (Travel) and closed caption (Closed Caption).

[0160] In the pre-production step executed by the distributed programme editing system 10, planning processing PP1, casting (Casting) processing PP2, storyboard processing PP3, screen play processing PP4, location hunting processing PPS and scheduling processing PP6, are carried out.

[0161] In the planning processing PP1 for inspecting the programme contents, there are generated metadata such as main title (Main Title), secondary title (Secondary Title (Sub-Title)), series (Series Number), episodes (Episode), original (Original Book/Title), author (Original Author/Writer), director (Director), element (Element), comment (Comment), composer (Composer) of sound track (soundtrack(Music)), song writers (Song Writer), arrangers (Arranger), rights (Right), copyright (Copyright) or V-Chip information (V-Chip info). In the stage of the casting processing PP2, metadata indicating the information determining the performers, metadata indicating the variable information such as performers (Cast Actor/Actress) or unit/crew/staff (Unit/Crew/Staff) is generated. In the stage of the storyboard processing PP3 for inspecting the programme contents, there are generated metadata such as scene number (Scene Number), shot number (Shot Number), set (Set), properties (Properties), video format (Video Format), frame rate (Frame rate), audio format (Audio format) or audio channel assignment (Audio Channel Assignment). In the stage of screen play processing PP4 of ascertaining the screen play, there are generated metadata such as screen play (Screen Play), scene description (Scene Description), place (Place) and closed caption.

[0162] The metadata indicating variable information such as main title (Main Title), secondary title (Secondary Title (Sub-Title)), series (Series Number), episodes (Episode), original (Original Book/Title), author (Original Author/Writer) or director (Director), are generated after the project and are utilized for the casting (Casting) processing PP2, storyboard processing PP3, screen play processing PP4, location hunting processing PP5 and scheduling processing PP6, while being utilized for the acquisition processing ACQ by the acquisition system 60, authoring processing (Authoring) by the production system 20, programme distribution processing DST by the programme distribution system 50 or the programme archiving processing ARV by the archive system 40.

[0163] The variable metadata, generated by the distributed programme editing system 10 in the pre-production stage, are transmitted over the gigabit Ethernet 1 to the archive system 40 for storage in a petasite 40B

of the archive system 40. The production system 20, new system 30, archive system 40, programme distribution system 50 and the acquisition system 60 are able to capture the variable metadata stored in the petasite 40B of the archive system 40 over the gigabit Ethernet 1 as necessary.

[0164] Meanwhile, there are occasions wherein the variable metadata, generated in the pre-production stage, are modified and rewritten in the variable processing stages which will be explained subsequently.

[0165] The acquisition system 60 takes the metadata required for acquisition equipments, that is shot devices, to execute the acquisition processing ACQ.

[0166] In the acquisition processing ACQ, executed by the acquisition system 60, metadata indicating the real (roll) number (Real Number (Roll Number)), scene number (Scene Number), take number (Take Number), OK shot/NG shot (OK shot/NG shot), UMID (video) (UMID for video essence), UMID (audio) (UMID for audio essence), UMID (data) (UMID for data essence), UMID (others), (UMID for Others), camera setup data (Camera Setup Data), camera ID (Camera ID), camera lens (Camera Lens Data), lens ID (Lens ID), focus (Focus), zoom (Zoom), iris (Iris), tripod angle information (Tripod), tripod ID (Head ID), pan (Pan), tilt (Tilt), roll (Roll), dolly position information (Dolly), arm height (Arm Height) or position (Travel), are generated.

[0167] The variable metadata, generated in the acquisition processing stage by the acquisition system 60, is supplied along with the image and speech information, obtained on acquisition, to the production system 20.

[0168] The production system 20 executes an ingesting (Ingesting) processing PR1, telecine (Telecine) processing PR2, dupe (Dupe) processing PR3, off-line editing (Off-line Editing) processing PR4, complete edit (Complete Edit) processing PR5, voice over (Voice Over) processing PR6, sound effect (Sound Effect) processing PR7, sound sweetening (Sound Sweetening) processing PR8, CG creation (CG Creation) processing PR9 and finishing (Finishing) processing PR10.

[0169] The ingesting (Ingesting) processing PR1 in the production system 20 stores the variable metadata generated on acquisition by the acquisition system 60 along with the video or audio information. The telecine processing PR2 converts the video or audio information recorded on the film obtained by the acquisition system 60 into television signals. The off-line editing processing PR4 performs material editing operations on the video and audio data (material data), based on the information concerning the material added as metadata, to prepare an editing decision list (EDL) which is the metadata derived from the editing results. The editing results indicate the in- and out-points on the recording medium and the information concerning the edit points represented by the real number 1 or the time code. The present complete edit (Complete Edit) processing PR5 executes

complete editing on the material stored by the telecine processing PR2 using the EDL prepared by the off-line editing processing PR4. The finishing (Finishing) processing PR9 completes the distributed programme using the video and audio data completely edited by the complete editing processing PR5 and an audio material processed with voice over (Voice Over) processing PR5. There are occasions wherein the CG picture prepared by the CG creation (CG Creation) processing CGC or the material stored in the archive system 40 is used at this time.

[0170] The programme distribution system 50 executes the authoring processing of distributing the distribution programme completed by the finishing (Finishing) processing PR9 as a package medium or the distribution processing of distributing the programme over a radio network or a wired network.

[0171] The programme preparation and distribution system 100 of the above-described structure inputs, in the pre-production stage executed by the distributed program editing system 10 and in the casting processing PP2 such metadata as main title (Main Title), secondary title (Secondary Title (Sub-Title)), series (Series Number), episodes (Episode), original (Original Book/Title), author (Original Author/Writer), director (Director), composer (Composer) of sound track (SoundTrack (Music)), song writers (Song Writer) or arrangers (Arranger), to a computer or a portable telephone device, and sends to the production system 20 the input metadata co-packed with the video or audio information obtained on acquisition by the acquisition system 60, to perform timing designation of flowing the staff roll in the off-line editing processing PR4 in the production system 20 to automatically generate characters consistent with the metadata co-packed with the audio or video information to effect complete edit processing PR5.

[0172] In this programme preparation and distribution system 100, a database is constructed in which the archive system 40 manages metadata in a concentrated fashion along with the essence such as video and audio data. By the distributed programme editing system 10, the metadata inputted at the planning processing PP1 and at the casting processing PP2 is registered in the database managed in a concentrated fashion by an archival manager 40A of the archive system 40, at the same time as a tag specifying the registered metadata is issued. This tag is co-packed with the video and audio information obtained on acquisition by the acquisition system 60. In the production system 20, the timing to flow the staff roll is specified during the off-line processing PR4 in the production system 20. In accordance with the specified timing, the metadata is taken out from the database pointed by the tag co-packed with the video information or the audio information to generate the corresponding character automatically to effect complete editing processing.

[0173] That is, with the present programme preparation and distribution system 100, it is possible to con-

struct a supporting system of automatically generating the character of the staff roll using the metadata.

[0174] In this programme preparation and distribution system 100, the GPS data indicating the place, position or time of acquisition is inputted as metadata in the stage of the acquisition processing ACQ by the acquisition system 60 and the input metadata is co-packed with the audio or video information obtained on acquisition by this acquisition system 60. At the off-line editing processing PR4 in the production system 20, an editor is able to execute temporal programme distribution without the editor becoming conscious of the presence of the GPS data. At the CG creation processing PR9, retrieval is made from the database showing a separately provided database, using tag data indicating the position or time co-packed in the video or audio information to output map graphics to complete the programme employing the map graphic by the complete editing processing PR5.

[0175] In this case, as when automatically generating the character, the metadata indicating the position or time can be registered in the database managed in a concentrated fashion by the archival manager 40A of the archive system 40 to support the CG creation processing PR9.

[0176] That is, in this programme preparation and distribution system 100, the GPS data and map data can be matched to each other, using metadata, to construct the CG creation supporting system.

[0177] If it is attempted to prepare contents using the VTR, a large amount of a material video tape is produced in acquisition. For example, if a 30-minute document is to be created, 50 to 100 material tapes are produced and necessary cuts are selected therefrom and connected together to prepare contents.

[0178] Thus, in this programme preparation and distribution system 100, metadata of such items as UMID (video) (UMID for video essence), reminiscent of contents acquired in the material tape (UMID for video essence), UMID (audio) (UMID for audio essence), UMID (data) (UMID for data essence), UMID (others) (UMID for others), reel (roll) number (Real Number (Roll Number), tape ID (Tape ID), tape number (Tape ID Number), object ID (object ID), main title (Main Title), secondary title (Secondary Title (Sub-Title)), series (Series Number), episodes (Episode), metadata to essence (Metadata to Essence), locators (Locators) or essence descriptions (Essence Descriptions), are co-packed and recorded along with the video or audio information. This enables the production system 20 to read out the metadata at the time of reproduction to retrieve the cuts as necessary from the material tape quickly, using the read-out metadata as clue. In this case, metadata of items reminiscent of the contents recorded in the material tape is co-packed with the video or audio information and recorded in synchronism in a video frame or the contents of tens to hundreds of video tapes are collected and recorded on a controllable external recording me-

dium.

[0179] That is, in this programme preparation and distribution system 100, a supporting system can be constructed in which the labor in tape screening operations can be diminished with the aid of metadata.

[0180] Moreover, in this programme preparation and distribution system 100, metadata of items concerning the telecine, such as vertical rate (Vertical rate), a frame rate (Frame Rate), total number of lines/frame (Total lines per Frame), active lines/frame (Active Lines per Frame), aspect ratio (Display Aspect Ratio), image aspect ratio (ImageAspectRatio), stored height (Stored Height), sample height (Sample Height), sample width (Sample Width), sample X offset (SampledX Offset), sample Y offset (SampledY Offset), display width (Display Width), displayX Offset (DisplayX Offset) or video coding characteristics (Video Coding Characteristics) are co-packed and recorded along with the video or audio information. In this manner, in the complete edit processing PR5, output trimming positions can be calculated using metadata recorded in keeping with the output format after the editing operation following the output format to obtain an output.

[0181] Also, in this programme preparation and distribution system 100, the essence data and metadata when transmitted on the gigabit Ethernet 1 are converted to the MXF file format, such that, in the editing operation by the production system 20, the status of the material used in the editing operation is stated as hysteresis in the header information. The contents makeup can be comprehended from the header information. The Clip_object, for example, terms the scene or cut a clip and indicates the time code indicating the temporal beginning or end, as described above. The contents are a set of clips. By sequentially searching the information indicated by the clip in the chronological sequence, it is possible to know the time code as a chapter candidate. Since the number of ultimate chapters is smaller than the number of change points of clips, the entire chapters can be determined by selecting only necessary ones of candidate chapters.

[0182] Thus, in this programme preparation and distribution system 100, in distributing the contents prepared by the production system 20 by mediums, such as DVD or LD, the MFX file headers are searched for packages, the editing operations of which has been completed by the production system 20, the MFX file headers are searched to list up candidates of chapter points and the chapter points ahead and in back of the candidates are viewed to select only necessary chapter points to convert the format for distributing the contents to the mediums, such as DVD or LD, by way of authoring processing. That is, in this authoring system 52, authoring processing of the editing video programme is performed from the metadata specifying the logical structure of the video programme.

[0183] In addition, in this programme preparation and distribution system 100, in which the information such

as rights concerning performers from scene to scene (Rights), copyright (Copyright), intellectual rights (Intellectual Rights), owners (Rights Owner), payments and costing information (Payments and costing), is logged and recorded simultaneously as metadata, it is possible to trace clips if such clips are sliced.

[0184] According to the present invention, in which the essence is created, metadata for describing the essence is generated when creating the essence, the essence and the metadata are correlated with each other, and the operation to be performed on the archived essence is controlled based on the metadata to perform the asset management on the essence, it is possible to process a sequence of operations from the acquisition and preparation to the editing, sending out and archiving efficiently.

[0185] Moreover, according to the present invention, in which the essence is created, metadata for explaining the essence is generated, the essence and the metadata are archived in relation with each other, and the metadata is used to control the operation performed on the archived essence, asset management may be performed on the essence.

[0186] Also, according to the present invention, in which metadata for explaining the essence is generated and the essence and the metadata are controlled based on the above-mentioned information to effect the asset management on the essence, it is possible to realize efficient processing of a sequence of operations from acquisition and creation to the editing, sending out and archiving.

[0187] In addition, according to the present invention, in which the information specifying the attributes of the essence, the essence and the information are recorded correlatively with each other on a recording medium and the recording and/or reproducing operations for reproducing the essence from the recording medium is controlled based on the above-mentioned information, to perform the asset management on the essence, it is possible to realize efficient processing of a sequence of operations from acquisition and creation to the editing, sending out and archiving.

[0188] Furthermore, according to the present invention, in which metadata for specifying the attributes of the essence or metadata or identifying the essence is generated, and the operation of archiving the essence correlatively with the metadata is controlled using the metadata, to perform the asset management for the essence, it is possible to realize efficient processing of a sequence of operations from acquisition and creation to the editing, sending out and archiving.

[0189] According to the present invention, by creating an essence and generating metadata used for accounting for the essence, it is possible to create the project from the essence efficiently using the metadata.

[0190] Also, according to the present invention, by creating an essence, generating metadata used for accounting for the essence, and controlling an operation

of post-production based on the metadata, it is possible to create the project from the essence efficiently.

[0191] Also, according to the present invention, by creating an essence, generating metadata used for accounting for the essence, and performing an operation of post-production correlatively with the metadata, it is possible to create the project from the essence efficiently.

[0192] Also, according to the present invention, by creating an essence and generating metadata used for identifying the essence, it is possible to create the project from the essence efficiently using the metadata generated at the time of the production.

[0193] Also, according to the present invention, by creating an essence, generating metadata used for identifying the essence, and controlling an operation of postproduction based on the metadata, it is possible to create the project from the essence efficiently.

[0194] Further, according to the present invention, by creating an essence, generating metadata used for identifying the essence, and performing an operation of post-production correlatively with the metadata, it is possible to create the project from the essence efficiently.

[0195] According to the present invention, by generating metadata for accounting for the essence, performing an operation of the production using the metadata, and creating the essence, it is possible to create the project from the essence efficiently.

[0196] Also, according to the present invention, by generating metadata for accounting for the essence, creating the essence and storing the essence and the metadata correlatively with each other on a recording medium, and performing an operation of production using the metadata, it is possible to create the project from the essence efficiently.

[0197] According to the present invention, by creating the essence and generating metadata used for accounting the essence, and performing control based on the metadata so that an asset management for the essence archived will be performed to archive the essence and the metadata correlatively with each other, it is possible to archive the essence efficiently.

[0198] Also, according to the present invention, in a method for archiving an essence, by creating the essence and generating metadata used for accounting the essence, performing an operation for the essence using the metadata, and archiving an essence and the metadata correlatively with each other, it is possible to archive the essence efficiently.

[0199] Also, according to the present invention, in a method for archiving an essence, by creating the essence and generating metadata used for accounting the essence, and controlling a reproducing operation for the essence archived, using the metadata, the essence and the metadata are archived correlatively with each other. Thus, it is possible to archive the essence efficiently.

[0200] Also, according to the present invention, in a

method for archiving an essence, by creating the essence and generating metadata used for accounting the essence, and controlling a retrieving operation for the essence archived, using the metadata, the essence and the metadata are archived correlatively with each other. Thus, it is possible to archive the essence efficiently.

[0201] Also, according to the present invention, in a method for archiving an essence, by creating the essence and generating metadata pertinent to the essence, and performing control, using the metadata, so that an operation for the essence archived will be performed, the essence and the metadata are archived correlatively with each other. Thus, it is possible to archive the essence efficiently.

[0202] Also, according to the present invention, in a method for archiving an essence, by creating the essence and generating metadata pertinent to the essence, and performing control based on the metadata so that an asset management for the essence archived will be performed, the essence and the metadata are archived correlatively with each other. Thus, it is possible to archive the essence efficiently.

[0203] Also, according to the present invention, in a method for archiving an essence, by creating the essence and generating metadata pertinent to the essence, and controlling a reproducing operation for the essence archived, using the metadata, the essence and the metadata are archived correlatively with each other. Thus, it is possible to archive the essence efficiently.

[0204] Also, according to the present invention, in a method for archiving an essence, by creating the essence and generating metadata pertinent to the essence, and controlling a retrieving operation for the essence archived, using the metadata, the essence and the metadata are archived correlatively with each other. Thus, it is possible to archive the essence efficiently.

[0205] According to the present invention, by creating the essence and generating metadata pertinent to the essence, and performing post-production processing on the essence; it is possible to allot the essence efficiently using metadata generated at the time of the production.

[0206] Also, according to the present invention, by creating the essence and generating metadata pertinent to the essence, performing post-production processing on the essence, and controlling an operation of distribution, using the data, it is possible to allot the essence efficiently.

[0207] Also, according to the present invention, in a distribution method for allotting an essence, by creating the essence and generating metadata used for accounting for the essence, and performing post-production processing on the essence, it is possible to allot the essence efficiently, using the metadata generated at the time of the production.

[0208] Further, according to the present invention, in a distribution method for allotting an essence, by creating the essence and generating metadata used for accounting for the essence, performing post-production

processing on the essence, and controlling an operation of the distribution, using the metadata used at the time of the production, it is possible to allot the essence efficiently.

[0209] According to the present invention, by creating the essence and generating metadata pertinent to the essence, performing post-production on the essence, and creating the package medium from an essence processed with post-production using metadata, it is possible to create a package medium efficiently from an essence.

[0210] Also, according to the present invention, by generating metadata pertinent to the essence, creating the essence, performing post-production on the essence, and creating the package medium from an essence processed with post-production using the metadata, it is possible to create a package medium efficiently from an essence.

[0211] Also, according to the present invention, by creating the essence and generating metadata used for accounting for the essence, and creating the package medium from an essence processed with post-production, using the metadata, it is possible to create a package medium efficiently from an essence.

[0212] Further, according to the present invention, by generating metadata used for accounting for the essence, creating the essence; performing post-production on the essence, and creating the package medium from an essence processed with post-production, using metadata generated at the time of the pre-production, it is possible to create a package medium efficiently from an essence.

[0213] According to the present invention, by generating metadata indicating the rights of the essence, and performing control based on the metadata so that a circulating operation of the essence will be performed, asset management processing is effected on the essence. Thus, it is possible to manage the essence efficiently.

[0214] Also, according to the present invention, by generating metadata specifying rights pertinent to the essence, and performing control based on the metadata so that a circulation operation of the essence will be performed, asset management processing is effected on the essence. Thus, it is possible to manage the essence efficiently.

[0215] Also, according to the present invention, by generating metadata specifying rights pertinent to the essence, and performing control based on the metadata so that a re-utilizing operation of the essence will be performed, asset management processing is effected on the essence. Thus, it is possible to manage the essence efficiently.

[0216] Also, according to the present invention, by creating the essence and generating metadata specifying rights pertinent to the essence, and performing control based on the metadata so that a re-utilizing operation of the essence will be performed, asset management processing is effected on the essence. Thus, it is

possible to manage the essence efficiently.

[0217] According to the present invention, by creating the essence and for generating UMID (unique material identifier) for discriminating the essence, controlling an operation in the post-production based on the UMID, and editing the essence, the programme is generated. Thus, it is possible to create the programme efficiently from the essence.

[0218] Also, according to the present invention, by creating the essence and for generating UMID (unique material identifier) for discriminating the essence, controlling an archiving operation of archiving an essence generated by production processing and/or an essence processed with post-production based on the UMID, and editing the essence, the programme is generated. Thus, it is possible to create the programme efficiently from the essence.

[0219] According to the present invention, by generating a plurality of metadata which are data pertinent to the essence and which are respectively identified by SMPTE (Society of Motion Picture and Television Engineers) labels, receiving the essence and the plural metadata and analyzing the SMPTE labels to extract pre-set metadata from the plural metadata, and controlling the processing relevant to the essence based on the extracted metadata, it is possible to create the essence efficiently.

[0220] Also, according to the present invention, by generating a plurality of metadata which are data pertinent to the essence and which are respectively identified by SMPTE (Society of Motion Picture and Television Engineers) labels, receiving the essence and the plural metadata and analyzing the SMPTE labels to extract pre-set metadata from the plural metadata, and controlling the production processing performed on the essence based on the extracted metadata, it is possible to create the essence efficiently.

[0221] Also, according to the present invention, by generating a plurality of metadata which are data pertinent to the essence and which are respectively identified by SMPTE (Society of Motion Picture and Television Engineers) labels, receiving the essence and the plural metadata and analyzing the SMPTE labels to extract pre-set metadata from the plural metadata, and controlling the post-production processing performed on the essence based on the extracted metadata, it is possible to create the essence efficiently.

[0222] Also, according to the present invention, by generating a plurality of metadata which are data pertinent to the essence and which are respectively identified by SMPTE (Society of Motion Picture and Television Engineers) labels, receiving the essence and the plural metadata and analyzing the SMPTE labels to extract pre-set metadata from the plural metadata, and controlling the archiving processing performed on the essence based on the extracted metadata, it is possible to create the essence efficiently.

[0223] Further, according to the present invention, by

generating a plurality of metadata which are data pertinent to the essence and which are respectively identified by SMPTE (Society of Motion Picture and Television Engineers) labels, receiving the essence and the plural metadata and analyzing the SMPTE labels to extract pre-set metadata from the plural metadata, and controlling an operation for asset management performed on the essence based on the extracted metadata, it is possible to create the essence efficiently.

Claims

1. An asset management system for managing an essence, comprising:

means for creating said essence and for generating metadata for explaining said essence when creating said essence;
means for archiving said essence and the metadata correlatively with each other; and
means for controlling an operation performed on the archived essence based on said metadata to realize asset management for said essence.

2. An asset management system for managing an essence, comprising:

means for generating the information for explaining said essence;
means for recording and/or reproducing said essence and the information correlatively with each other; and
means for managing and/or controlling a recording and/or reproducing operation of said essence based on said information to effect asset management for said essence.

3. An asset management system for managing an essence, comprising:

means generating the information specifying attributes of said essence;
recording said essence and the information correlatively with each other on a recording medium to reproduce said essence from said recording medium; and
control means for controlling the recording and/or reproducing operations for said essence based on said information to effect asset management for said essence.

4. An asset management method for managing an essence, comprising:

creating said essence and for generating metadata for explaining said essence when creating

said essence;
associating said essence and the metadata with each other; and
controlling an operation performed on the archived essence based on said metadata to realize asset management for said essence.

5. An asset management method for managing an essence, comprising:

generating the information for explaining said essence; and
controlling the recording and/or reproducing operation of recording and/or reproducing said essence and the information correlatively with each other based on said information to effect asset management for said essence.

6. An asset management method for managing an essence, comprising:

generating the information specifying attributes of said essence; and
recording said essence and the information correlatively with each other on a recording medium and controlling the recording and/or reproducing operations for said essence based on said information to effect asset management for said essence.

7. A production system for creating a project from an essence, comprising:

production for creating said essence and for generating metadata for accounting for said essence; and
post-production of creating said project from said essence using metadata generated at the time of said production.

8. A production system for creating a project from an essence, comprising:

production for creating said essence and for generating metadata for accounting for said essence; and
post-production of creating said project from said essence;

wherein an operation of said post-production is controlled based on metadata generated at the time of said production.

9. A production method for creating a project from an essence, comprising the steps of:

creating said essence and generating metadata used for accounting for said essence; and

creating said project from said essence using said metadata.

10. A production method for creating a project from an essence, comprising the steps of:

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creating said essence and generating metadata used for accounting for said essence; and controlling an operation of post-production based on said metadata to create said project from said essence.

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11. A production system for creating a project from an essence, comprising:

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pre-production for creating metadata used for accounting for said essence; production for performing an operation for creating said essence, using said metadata; and post-production for creating said project from said essence.

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12. A production system for creating a project from an essence, comprising:

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a pre-production for creating metadata used for accounting for said essence; a production for creating said essence and for storing said essence and the metadata correlatively with each other on a recording medium; and a post-production for creating said project from said essence;

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wherein an operation in said production is performed using the metadata generated at the time of said pre-production.

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13. An archiving system for archiving an essence, comprising:

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production for creating said essence and for generating metadata used for accounting said essence; archiving means for archiving said essence and the metadata correlatively with each other; and means for controlling said archiving means so that an operation for said essence will be performed using said metadata.

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14. An archiving system for archiving an essence, comprising:

production for creating said essence and for generating metadata used for accounting said essence; archiving means for archiving said essence and the metadata correlatively with each other; and

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controlling means for controlling said archiving means so that asset management for said essence archived by said archiving means will be performed based on said metadata.

15. A method for archiving an essence, comprising the steps of:

creating said essence and generating metadata used for accounting said essence; performing an operation for said essence using said metadata; and archiving said essence and the metadata correlatively with each other.

16. A method for archiving an essence, comprising the steps of:

creating said essence and generating metadata used for accounting said essence; and performing control based on said metadata so that an asset management for said essence archived will be performed to archive said essence and the metadata correlatively with each other.

17. A distribution system for allotting an essence, comprising:

a production for creating said essence and for generating metadata pertinent to said essence; a post-production for performing post-production processing on said essence; and distribution means for allotting said essence using metadata generated at the time of said production.

18. A distribution system for allotting an essence, comprising:

a production for creating said essence and for generating metadata pertinent to said essence; a post-production for performing post-production processing on said essence; and distribution means for allotting said essence;

wherein an operation of said distribution means is controlled using the metadata used at the time of said production.

19. A distribution method for allotting an essence, comprising the steps of:

creating said essence and generating metadata pertinent to said essence; performing post-production processing on said essence; and allotting said essence using metadata generated

ed at the time of said production.

- 20.** A distribution method for allotting an essence, comprising the steps of:

creating said essence and generating metadata pertinent to said essence;
performing post-production processing on said essence; and
controlling an operation of distribution, using said data, to allot said essence.

- 21.** An authoring system for creating a package medium from an essence, comprising:

a production for creating said essence and for generating metadata pertinent to said essence;
a post-production for performing post-production on said essence; and
authoring means for creating said package medium from an essence processed with post-production, using metadata generated at the time of said production.

- 22.** The authoring system according to claim 1 wherein said authoring means performs authoring processing for an editing video programme from metadata indicating the logical structure of a video programme.

- 23.** An authoring method for creating a package medium from an essence, comprising the steps of:

creating said essence and generating metadata pertinent to said essence;
performing post-production on said essence; and
creating said package medium from an essence processed with post-production using metadata.

- 24.** An authoring method for creating a package medium from an essence, comprising the steps of:

generating metadata pertinent to said essence;
creating said essence;
performing post-production on said essence; and
creating said package medium from an essence processed with post-production using said metadata.

- 25.** An asset management system for managing an essence, comprising:

a pre-production for generating metadata indicating the rights of said essence and;
a production for creating said essence;

asset management means for performing asset management processing on said essence; and
means for controlling said asset management means so that a circulation operation of said essence will be performed based on said metadata.

- 26.** An asset management system for managing an essence, comprising:

means for creating said essence and for generating metadata specifying rights pertinent to said essence;
asset management means for performing asset management processing on said essence; and
means for controlling said asset management means, based on said metadata, so that a circulating operation of said essence will be performed based on said metadata.

- 27.** An asset management method for managing an essence, comprising the steps of:

generating metadata indicating the rights of said essence;
creating said essence; and
performing control based on said metadata so that a circulating operation of said essence will be performed to effect asset management processing on said essence.

- 28.** An asset management method for managing an essence, comprising the steps of:

creating said essence and for generating metadata specifying rights pertinent to said essence; and
performing control based on said metadata so that a circulation operation of said essence will be performed to effect asset management processing for said essence.

- 29.** A production system for creating a programme from an essence, comprising:

a production for creating said essence and for generating UMID (unique material identifier) for discriminating said essence;
a post-production for editing said essence for generating said programme; and
means for controlling an operation in said post-production based on said UMID.

- 30.** A production method for creating a programme from an essence, comprising the steps of:

creating said essence and for generating UMID (unique material identifier) for discriminating

said essence; and
controlling an operation in said post-production
based on said UMID to edit said essence to
generate said programme.

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31. A production system for creating an essence, comprising:

means for generating a plurality of metadata
which are data pertinent to said essence and
which are respectively identified by SMPTE
(Society of Motion Picture and Television Engineers) labels;

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means for receiving said essence and said plural
metadata and analyzing said SMPTE labels
to extract pre-set metadata from said plural
metadata; and

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means for controlling the processing relevant
to said essence based on the extracted metadata.

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32. A control method of a production system for creating an essence, comprising the steps of:

generating a plurality of metadata which are data
pertinent to said essence and which are respectively
identified by SMPTE (Society of Motion Picture and Television Engineers) labels;
receiving said essence and said plural metadata
and analyzing said SMPTE labels to extract
pre-set metadata from said plural metadata;
and

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controlling the processing relevant to said essence
based on the extracted metadata.

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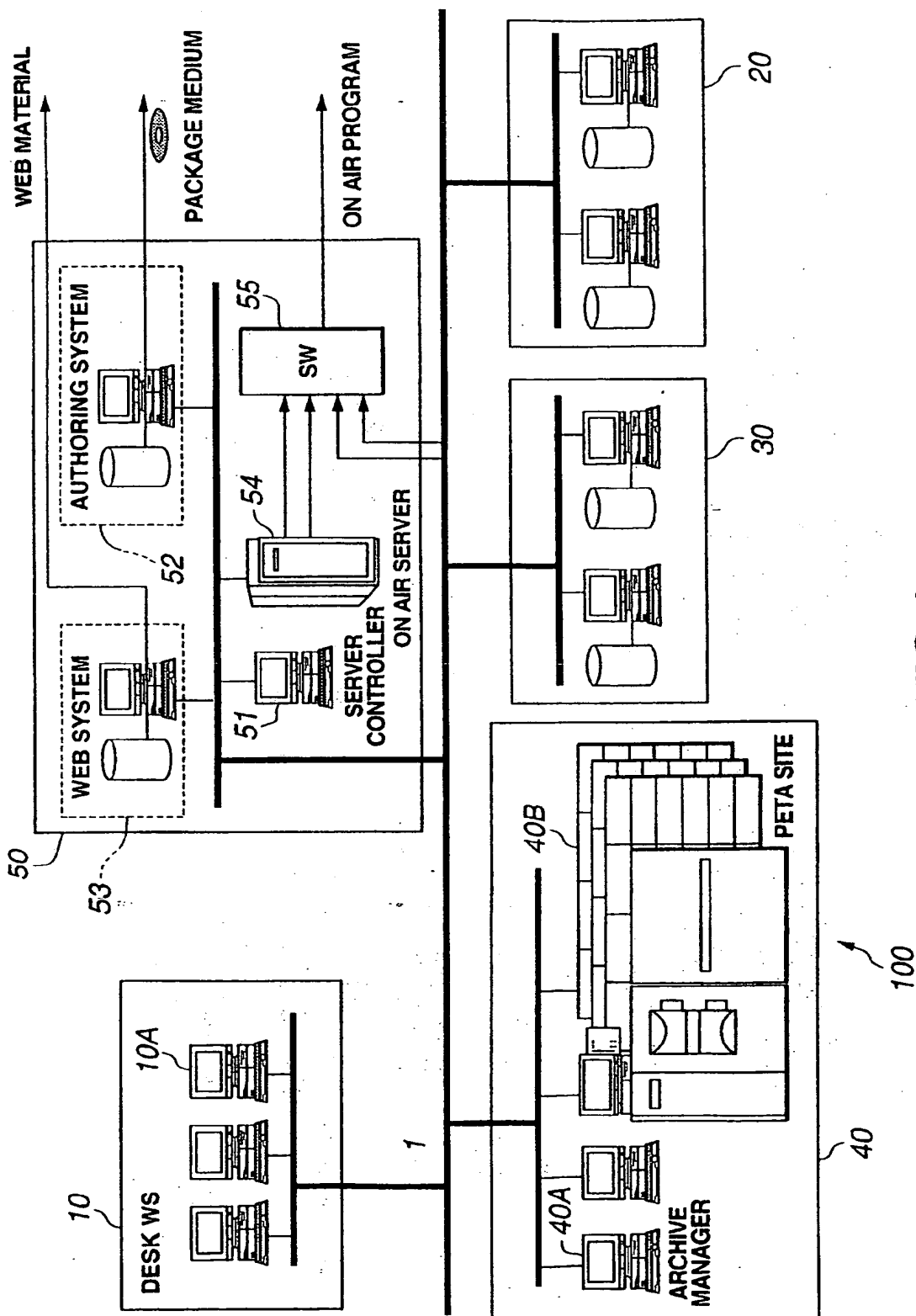


FIG.1

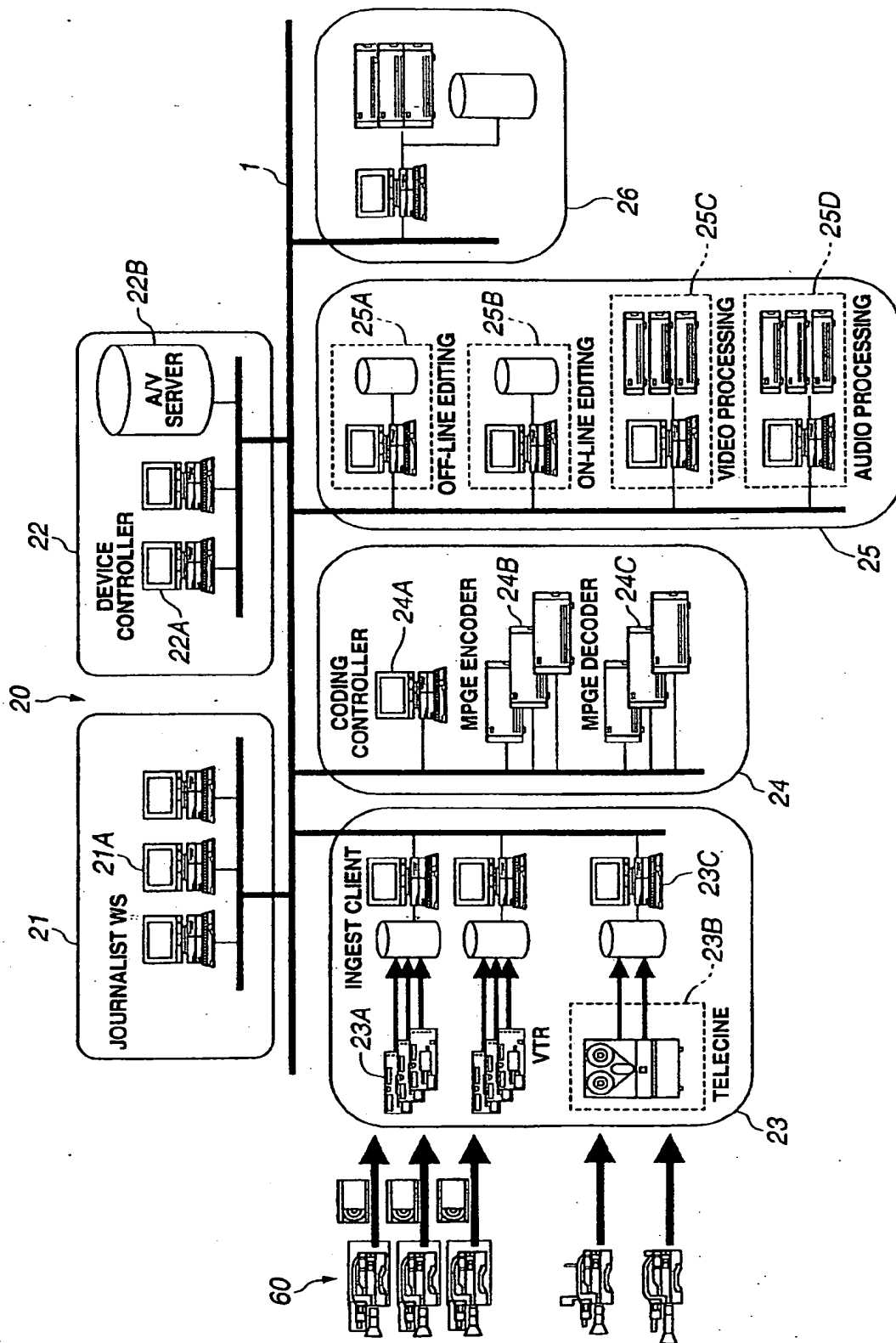


FIG.2

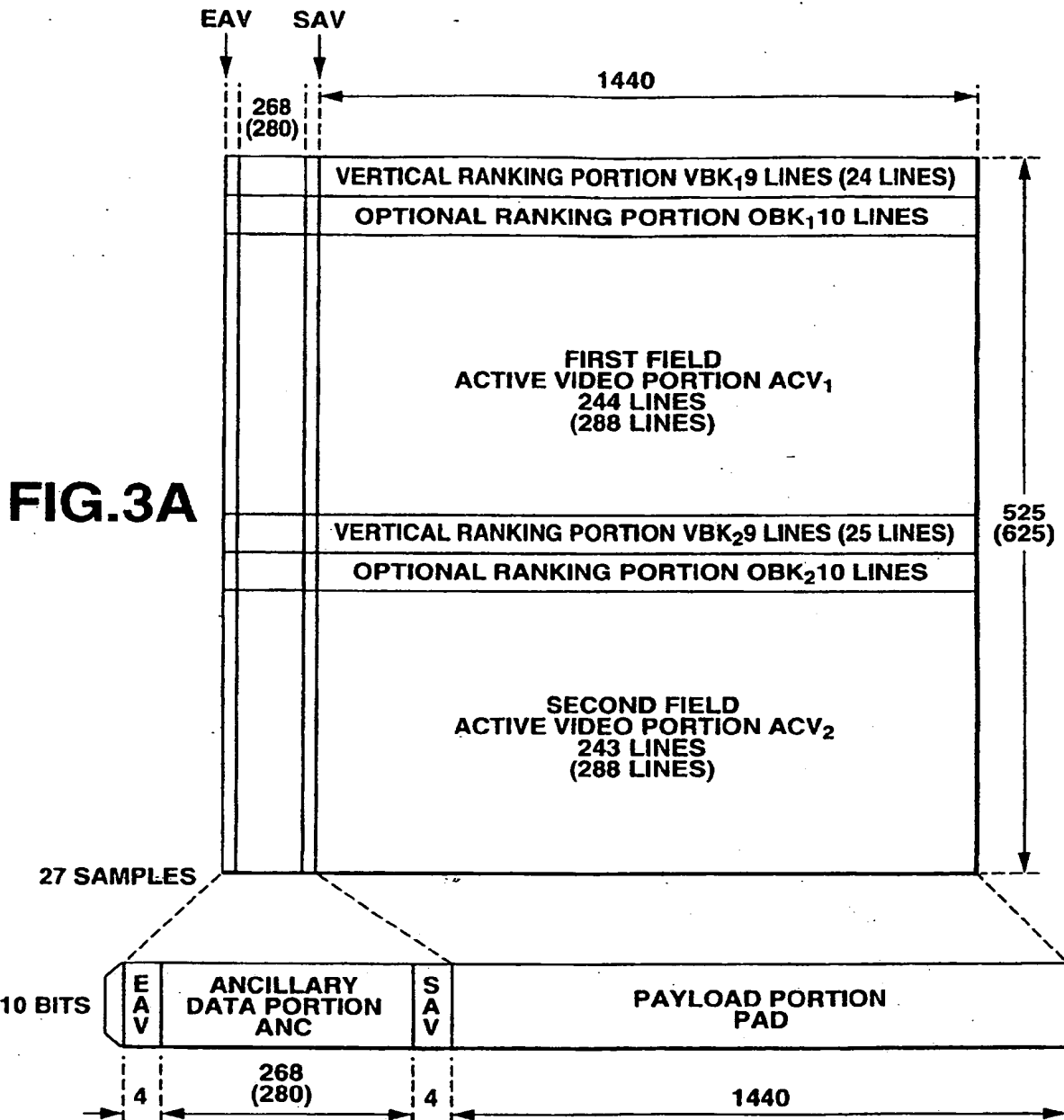


FIG.3B

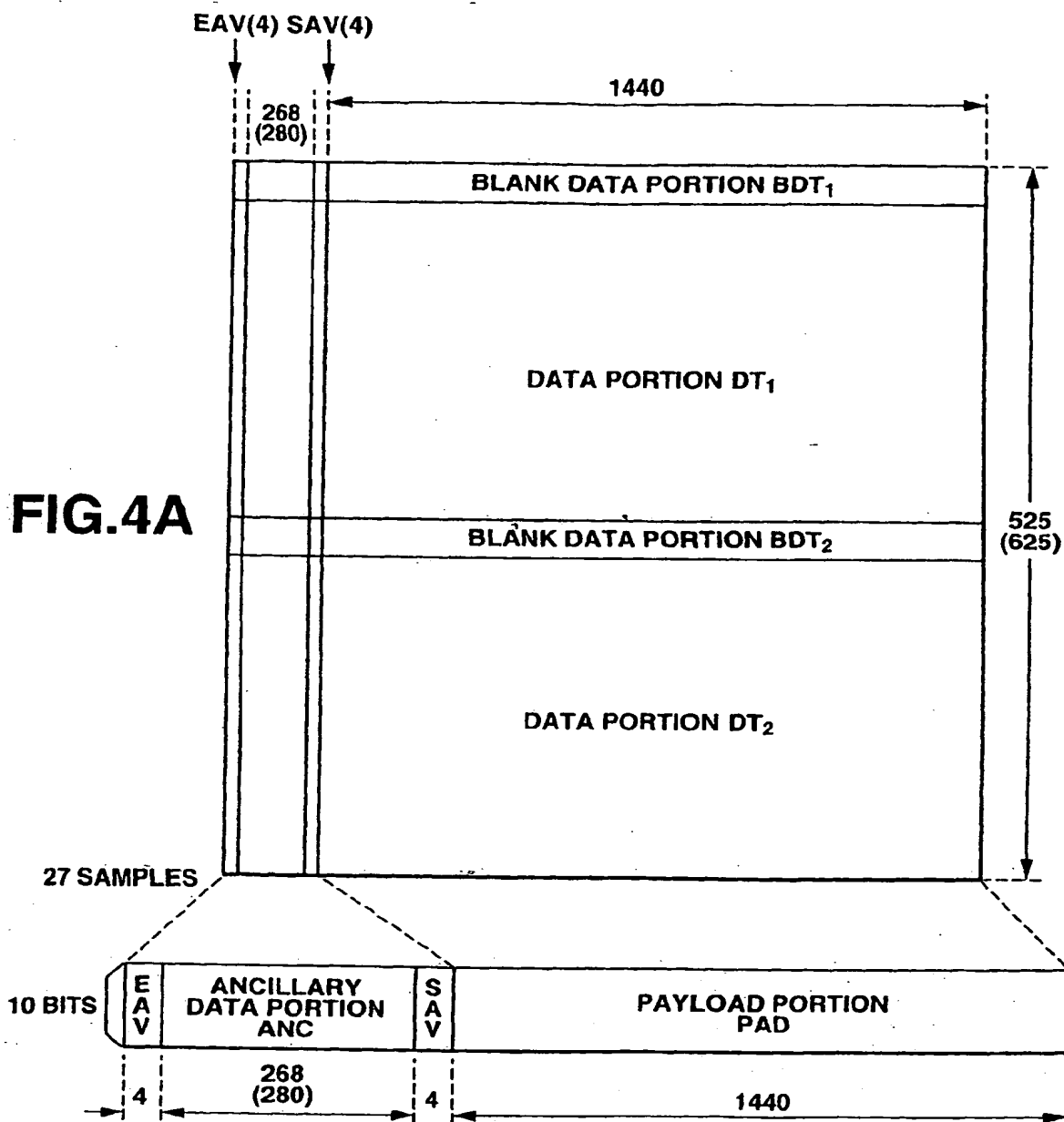


FIG.4B

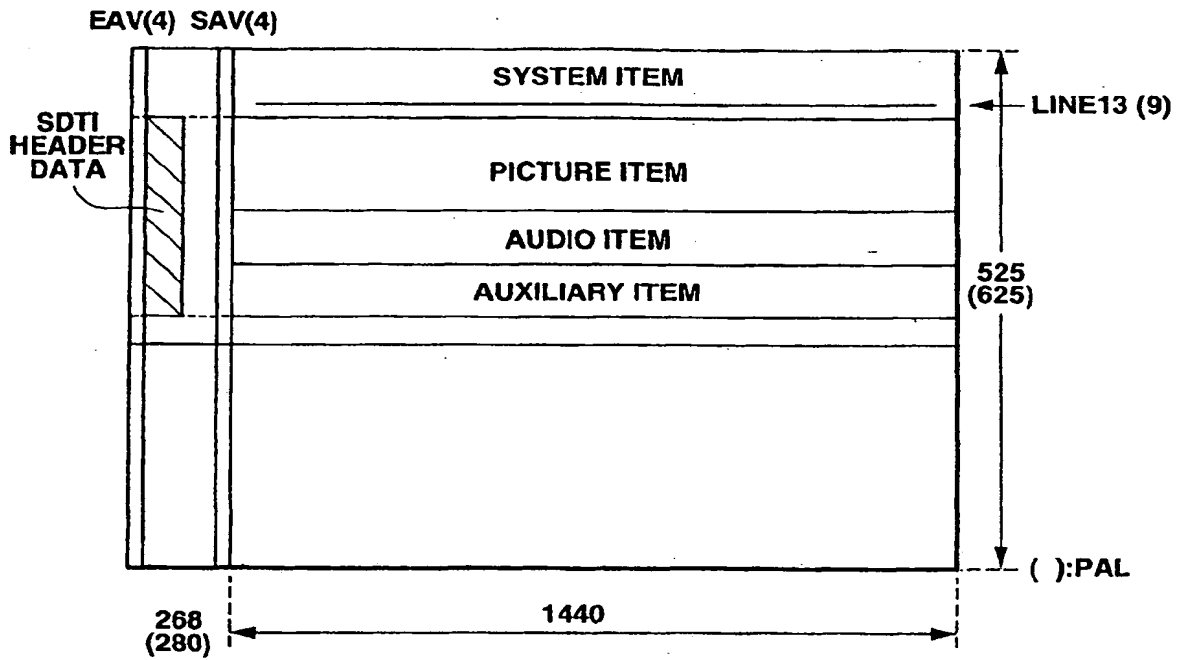


FIG.5

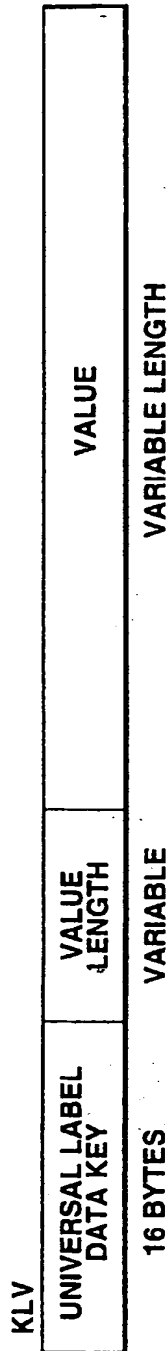


FIG.6

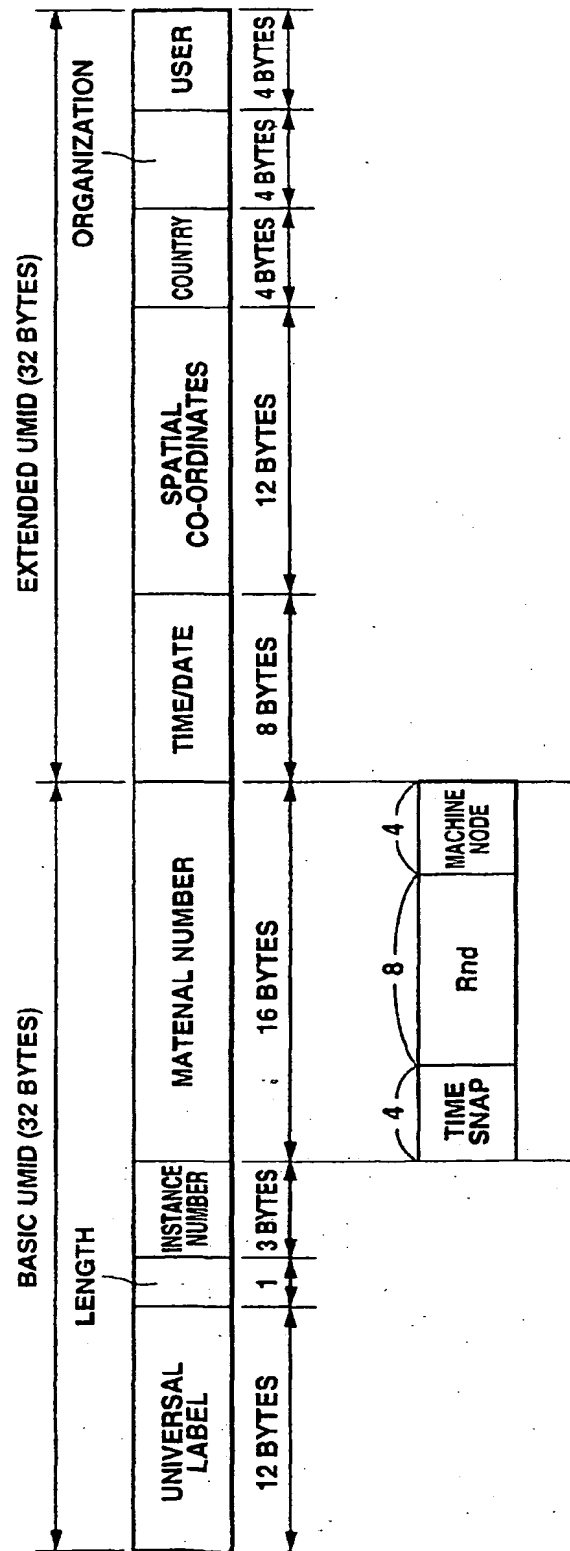


FIG.7

SMPT Label	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	12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16	01	01	11	01	00	00	00	00	00	ISAN	ISO Audio Visual No	ISO Audio Visual Number	REF	As per standard		Leaf
17	01	01	11	02	00	00	00	00	00	ISBN	ISO Book No	ISO Book Number	REF	As per standard		Leaf
18	01	01	11	03	00	00	00	00	00	ISSN	ISO Serial No	ISO Serial Number	REF	As per standard		Leaf
19	01	01	11	04	00	00	00	00	00	ISWC	ISO Musical Work Record	ISO Musical Work Code	REF	As per standard		Leaf
20	01	01	11	05	00	00	00	00	00	ISMN	ISO Printed Music No	ISO Printed Music Number	REF	As per standard		Leaf
21	01	01	11	06	00	00	00	00	00	ISCI	ISO Commercial No	ISO Commercial Identifier	REF	As per standard		Leaf
22	01	01	11	07	00	00	00	00	00	ISRC	ISO Recording Code	ISO Recording Code	REF	As per standard		Leaf
23	01	01	11	08	00	00	00	00	00	ISRN	ISO Report No	ISO Report Number	REF	As per standard		Leaf
24	01	01	11	09	00	00	00	00	00	ISBD	ISO Term Synopsis	ISO Bibliographic Descriptor	REF	As per standard		Leaf
25	01	01	11	0A	00	00	00	00	00	ISTC	ISO Technical Work Code	ISO Technical Work Code	REF	As per standard		Leaf
26	01	01	13	01	00	00	00	00	00	DOI	Digital Object No	Digital Object Identifier	REF	As per standard		Leaf
27	01	01	14	00	00	00	00	00	00	Compound IDs	Compound ID	Compound Identifiers	REF			Note
28	01	01	14	01	00	00	00	00	00	SCI	Serial Item and Contribution ID	Serial Item and Contribution Identifier	REF	As per standard		Leaf
29	01	01	14	02	00	00	00	00	00	BCI	Book Item and Component ID	Book Item and Component Identifier	REF	As per standard		Leaf
30	01	01	14	03	00	00	00	00	00	ACI	Audio-Visual Item and Component ID	Audio-Visual Item and Component Identifier	REF	As per standard		Leaf
31	01	01	14	04	00	00	00	00	00	PII	Publisher ID	Publisher Item Identifier	REF	As per standard		Leaf
32	01	01	15	00	00	00	00	00	00	Object Identifiers	Same as 66	Object identifiers	REF			Note
33	01	01	15	01	00	00	00	00	00	CUID	Internet Globally Unique ID	The Internet Engineering Task Force 16 byte Globally Unique Identifier	REF	As per standard		Leaf

	SMPTE Label				Data Element Name	Japanese Names	Data Element Definition	Line #	Type	Value Length	Value Range	Note/Led	Defining Document
34	01 01 15 02 00 00 00 00	GUID and SMPTE label identifier	SMPTL Level	Identifier containing SMPTE label or 16 byte GUID	#REF!							Note	
35	01 01 15 02 01 00 00 00	MobID	ID of Metadata Object	Identifies the Metadata Object with a SMPTE label or GUID	#REF!	AUD	16 bytes					Led	NP23-52
36	01 01 15 02 02 00 00 00	Definition object identifiers	Details of Object ID		#REF!							Note	
37	01 01 15 02 02 01 00 00	[DefinitionObject] Identification	Details of Object ID	Defines SMPTE label or GUID by definition object	#REF!	AUD	16 bytes					Led	NP23-52
38	01 01 15 02 02 02 00 00	GenerationAUD	Version Display of Container	Defines an Identifier association with version of container	#REF!	AUD	16 bytes					Led	NP23-52
39	01 01 13 00 00 00 00 00	CNRI Handles	CNRI	Cooperation for National Research Institutes (CNRI) Identifier(s)	#REF!							Note	
40	01 01 15 00 00 00 00 00	Device Identifiers	Device ID	Unique identifier for any device used in programme production - cameras, microphones, editing colour grading etc.	#REF!							Note	
41	01 01 15 01 00 00 00 00	Device Designation	Device Designation	Identifies the "house name" of the device used in capturing or generating the essence	#REF!	ISO 7-bit char string	12 chars max					Led	
42	01 01 15 02 00 00 00 00	Device Make	Device Preparation	Identifies the device make used in capturing or generating the essence.	#REF!	ISO 7-bit char string	12 chars max					Led	
43	01 01 15 03 00 00 00 00	Device Model	Device Model	Identifies the device model used in capturing or generating the essence.	#REF!	ISO 7-bit char string	12 chars max					Led	
44	01 01 15 04 00 00 00 00	Device Serial Number	Device Serial No	Alphanumeric serial number identifying the individual device	#REF!	ISO 7-bit char string	12 chars max					Led	
45	01 02 00 00 00 00 00 00	Globally Unique Locations	Globally Unique Locator	Location Identifier	#REF!							Note	
46	01 02 01 00 00 00 00 00	URI locators (and "identifiers")	Unique Resource ID	Unique Resource IDs	#REF!							Note	
47	01 02 01 01 00 00 00 00	URL	Unique Resource Locator	Unique Resource Locator	#REF!							Type Note	
48	01 02 01 01 01 00 00 00	UPL	Unique Resource Locator	Unique Resource Locator	#REF!	ISO 7-bit char max	127 bytes max					Led	

43	01	02	01	01	02	00	00	00	00	URL String	Unicode URL String	Contains a Unicode URL String	URI	Unicode String	Variable	Leaf	WP.5.52
50	01	02	01	02	00	00	00	00	00	PURL	Persistent URL	Persistent Universal Resource Locator	REF	ISO 7-bit char string	12 bytes max	Leaf	
51	01	02	01	03	00	00	00	00	00	URN	Resource Name	Unique Resource Name	REF	ISO 7-bit char string	12 bytes max	Leaf	
52	01	02	02	00	00	00	00	00	00	Media locators	Media Locator	Location for a digital media, data, metadata file etc.	REF			Node	
53	01	03	01	00	00	00	00	00	00	Local Identifiers	Local ID	Identifier unique to the local context	REF			Node	
54	01	03	01	01	00	00	00	00	00	Administrative Identifiers	Administration ID	Identifier relating to business and administration	REF			Node	
55	01	03	01	01	01	00	00	00	00	Transmission Identifier	Transmission ID	Identifier for transmission control	REF	ISO 7-bit char string	12 chars max	Leaf	
56	01	03	01	01	02	00	00	00	00	Archive Identifier	Archive ID	Identifier for archival purposes	REF	ISO 7-bit char string	12 chars max	Leaf	
57	01	03	01	01	03	00	00	00	00	Item ID	Item ID	Identifier of a collection item	REF	ISO 7-bit char string	12 chars max	Leaf	
58	01	03	01	01	04	00	00	00	00	Accounting Reference	Reference No for Accounting Purposes	Reference number for accounting purposes	REF	ISO 7-bit char string	12 chars max	Leaf	
59	01	03	01	01	05	00	00	00	00	Traffic	Transmission Billing	Identifier for emission management and/or billing	REF	ISO 7-bit char string	12 chars max	Leaf	
60	01	03	01	02	00	00	00	00	00	Physical Media Identifiers	Same as 13	Organisationally given identifier for physical media	REF			Node	
61	01	03	01	02	01	00	00	00	00	Film codes	Film Code	Organisationally given identifier for film	REF			Node	
62	01	03	01	02	01	01	00	00	00	Reel/Film number	Reel No	An organisationally given number for a film reel or roll	REF	ISO 7-bit char string	12 chars max	Leaf	
63	01	03	01	02	02	00	00	00	00	Tape identifiers	Tape ID	Organisationally given identifier for tape	REF			Node	
64	01	03	01	02	02	01	00	00	00	Tape number	Tape No	An organisationally given number for a tape	REF	ISO 7-bit char string	12 chars max	Leaf	
65	01	03	02	00	00	00	00	00	00	Object identifiers	Object ID	Object identifier	REF			Node	
66	01	03	02	01	00	00	00	00	00	LUID	Locally Unique ID	A 4 byte locally unique ID	REF	Unicode	4 bytes	Leaf	

Code	Label	Element Name	Japanese Names	Data Element Definition	Type	Value Length	Value Range	Model	Defining Document
67	01 03 02 02 00 00 00 00	Slot ID	Slot ID	Specifies an identifier for the metadata object	INTEGER	4 bytes		Leaf	WVS-52
68	01 03 02 03 00 00 00 00	Object Text ID	Object Text ID	Identifies object by local name	INTEGER			Node	
69	01 03 02 03 01 00 00 00	Media Name	Media Name	Identifies the media by name	Unicode String	variable		Leaf	WVS-52
70	01 03 02 03 02 00 00 00	Slot Name	Slot Name	Identifies the slot by name	Unicode String	variable		Leaf	WVS-52
71	01 03 02 03 03 00 00 00	Object Name	Object Name	Specifies name of definition object	Unicode String	variable		Leaf	WVS-52
72	01 04 05 00 00 00 00 00	Local Locators	Local Locators	Local location information for taking metadata together	INTEGER			Node	
73	01 04 05 01 00 00 00 00	Local Media Locators	Local Media Locators	Locators for a digital media, data, metadata etc.	INTEGER			Node	
74	01 04 05 01 01 00 00 00	Local File Path	Local File Path	The path to a digital media, data, metadata etc file	INTEGER ISO 7-bit char	127 bytes max		Leaf	
75	01 04 05 03 00 00 00 00	File Locators	File Locators	Location information for file	INTEGER			Node	
76	01 04 05 03 01 00 00 00	Edge Code	Edge Code	The edge code on the film as frames	INTEGER ISO 7-bit char	32 chars max		Leaf	
77	01 04 05 03 02 00 00 00	Frame Code	Frame Code	Unique frame number for film	INTEGER ISO 7-bit char	32 chars max		Leaf	
78	01 04 05 03 03 00 00 00	Key Code	Key Code	Machine readable version of Frame Code	INTEGER	4 bytes		Leaf	
79	01 04 05 03 04 00 00 00	Link No	Link No	Link number	INTEGER	32 chars max		Leaf	
80	01 04 05 03 05 00 00 00	EdgeCode_Start	Code At The Beginning of The Segment	Specifies the edge code at the beginning of the segment	INTEGER	8 bytes		Leaf	WVS-52
81	01 04 05 03 06 00 00 00	Proxy locators	Proxy Locators	Local archival location information for key frames, large segments, key text etc	INTEGER			Node	

FIG.10

[illegible]

Line #	Subpart Label					Data Element Name	Japanese Name	Data Element Definition	File Type	Value Length	Value Range	Model	Defining Document
100	01 10 02 01	00	00	00	00	AGICOA ID	AGICOA ID	The AGICOA ID.	REF	As per standard		Leaf	
101	02 00 00 00	00	00	00	00	ADMINISTRATION	Class 2 Administration	Class 2 is reserved for administrative and business related metadata	REF			Node	
102	02 01 00 00	00	00	00	00	Supplier	Supplier	Details of the content supplying organization	REF			Node	
103	02 01 01 00	00	00	00	00	Source Organization	Supplying Organization	The name of the content supplying organization	REF	127 bytes max		Leaf	
104	02 01 02 00	00	00	00	00	Supply contract number	Contract ID	The alphanumeric number for the contract for the supply of content	REF	32 chars max		Leaf	
105	02 01 03 00	00	00	00	00	Original Producer Name	Original Content Producer	The name of the original content producer.	REF	127 bytes max		Leaf	
106	02 02 01 00	00	00	00	00	Product	Product	Abstract information about the media product	REF			Node	
107	02 02 01 01	00	00	00	00	Total number of Episodes in a Series	Total Number of Episodes	Total number of Episodes in Series	REF	2 bytes		Leaf	
108	02 02 05 00	00	00	00	00	Rights	Rights	Rights metadata	REF			Node	
109	02 05 01 00	00	00	00	00	Copyright	Copyright	Copyright metadata	REF			Node	
110	02 05 01 01	00	00	00	00	Copyright Status	Evaluation of Copyright Status	Executive evaluation of copyright status	REF	127 bytes max		Leaf	
111	02 05 01 02	00	00	00	00	Copyright Owner	Copyright Owner	The name of the person/organization who owns the copyright	REF	127 bytes max		Leaf	
112	02 05 02 00	00	00	00	00	Intellectual rights	Intellectual Property Rights	Intellectual property rights metadata other than copyright	REF			Node	
113	02 05 02 01	00	00	00	00	IP Type	Type of Intellectual Property Rights	A definition of what the IP is.	REF	32 bytes max		Leaf	
114	02 05 02 02	00	00	00	00	IP Right	Definition of Intellectual Property Rights	A definition of what can be made of an IP	REF	32 bytes max		Leaf	

FIG.11

115	02	05	02	03	00	00	00	00	00	Legal personalities	Legal Representative	A person or body to whom legal responsibility can be vested	REF			Note
116	02	05	02	03	01	00	00	00	00	Rights Owner	Owner	A definition of who or what entity can exercise an IP right	REF	ISO 7-bit char string	127 bytes max	Leaf
117	02	05	02	03	02	00	00	00	00	Rights Management Authority	Entity That Manages The Rights	Entity that manages the rights for access to the material	REF	ISO 7-bit char string	127 bytes max	Leaf
118	02	05	02	03	03	00	00	00	00	Interested parties	Who or What Entity Has An Interest	A definition of who or what entity has an interest in the right being exercised	REF	ISO 7-bit char string	127 bytes max	Leaf
119	02	05	02	04	00	00	00	00	00	IP Right options	IP Ancillary Information	A definition of what options can be exercised within the framework of using an IP Right	REF			Note
120	02	05	02	04	01	00	00	00	00	Maximum Number Of Usages	Maximum Number of Usages or Repeats	Maximum number of usages or repeats	REF	Unicode	2 bytes	Leaf
121	02	05	02	04	02	00	00	00	00	License options	License Options	Options for prolongation or renewal of license	REF	ISO 7-bit char string	127 bytes max	Leaf
122	02	06	00	00	00	00	00	00	00	Financial information	Financial Information	Details of payments, costs, income money and other considerations	REF			Note
123	02	06	01	00	00	00	00	00	00	Currency	Currency	The currency of the transaction	REF			Type Note
124	02	05	01	01	00	00	00	00	00	Currency	Same as 124	The currency of the transaction	REF	ISO 7-bit char	4 chars max See type dictionary	Leaf
125	02	05	02	00	00	00	00	00	00	Payments and costing	Payment and Costing	Payments and costing information	REF			Note
126	02	06	02	01	00	00	00	00	00	Royalty Financial Information	Royalty Financial Information	Royalty payment and other information	REF	ISO 7-bit char string	127 bytes max	Leaf
127	02	06	03	00	00	00	00	00	00	Income	Income Information	Income information	REF			Note
128	02	06	03	01	00	00	00	00	00	Royalty Financial Information	Royalty Financial Information	Royalty income and other information	REF	ISO 7-bit char string	127 bytes max	Leaf
129	02	07	00	00	00	00	00	00	00	Permitted Access	Permitted Access	Details of permitted access to the media product	REF			Note
130	02	07	01	00	00	00	00	00	00	Restrictions on Use	Access Level	Identifies the type or level of restriction applied to the media product	REF	ISO 7-bit char string	22 bytes max	Leaf
131	02	08	00	00	00	00	00	00	00	Security	Security	Content encryption/decryption information	REF			Note
132	02	08	01	00	00	00	00	00	00	System Access	Degree of Technical Access	Details of permitted access to the technical system or platform	REF			Note

L i n e	S U P E R T I Z e d				Data Element Name	Japanese Names	Data Element Definition	C o d e	Type	Value Length	Value Range	Model/Leaf	Defining Document
	1	2	3	4									
133	02	08	01	01	00	User Name	A username in a domain	REF1				Type Node	
134	02	08	01	01	00	User Name	A username in a domain	REF1	ISO 7bit char	16 chars max		Leaf	
135	02	08	01	02	00	Password	An individual password for access to the system	REF1				Type Node	
136	02	08	01	02	00	Password	An individual password for access to the system	REF1	ISO 7bit char	16 chars max		Leaf	
137	02	08	05	00	00	Film	Content encryption/decryption information specifically applying to the movie industry	REF1				Node	
138	02	04	05	01	00	Scrambling Key Kind	The programme description key type	REF1				Type Node	
139	02	08	05	01	00	Scrambling Key Kind	The programme description key type	REF1	ISO 7bit char	4 chars max	See types dictionary	Leaf	
140	02	08	05	01	00	Scrambling Key Value	The programme description key value	REF1	Unit	64 bytes max		Leaf	
141	02	10	00	00	00	Publication Outlet	The central publication outlet - eg. Broadcast, Internet etc.	REF1				Node	
142	02	10	01	00	00	Broadcast	Broadcast Outlet Information	REF1				Node	
143	02	10	01	01	00	Broadcast	The broadcasting organisation	REF1				Node	
144	02	10	01	01	00	Name	Name of the broadcasting organisation	REF1	ISO 7bit char string	32 bytes max		Leaf	
145	02	10	01	02	00	Channel	Broadcast channel	REF1	ISO 7bit char string	32 bytes max		Leaf	
146	02	10	01	03	00	Transmission Medium	Transmission medium (e.g. satellite, cable, terrestrial, ...)	REF1	ISO 7bit char string	32 bytes max		Leaf	
147	02	10	01	04	00	Broadcast Region	Target region of broadcast	REF1	ISO 7bit char string	32 bytes max		Leaf	

148	02	20	00	00	00	00	00	00	00	00	Broadcast and Repeat Statistics	Broadcast Statistics	Business statistics concerning the production	REF			Note	
149	02	20	01	00	00	00	00	00	00	00	First Broadcast Flag	First Broadcast	First broadcast of the product	REF	Boolean	1 byte	DO NOT FALSE or TRUE (TRUE)	Leaf
150	02	20	02	00	00	00	00	00	00	00	Repeat Number	Repeat Number	Information about the repeat status when not a first broadcast	REF			Note	
151	02	20	02	01	00	00	00	00	00	00	Number of The Current Repeat	Number of The Current Repeat	The number of the current repeat	REF	UN115	2 bytes	Leaf	
152	02	20	02	02	00	00	00	00	00	00	Number of The Previous Repeat	Number of The Previous Repeat	The number of the previous repeat	REF	UN116	2 bytes	Leaf	
153	02	20	03	00	00	00	00	00	00	00	Ratings	Ratings	Information about audience ratings and notes	REF			Note	
154	02	20	03	01	00	00	00	00	00	00	Audience Rating	Audience Rating	Audience rating as number of viewers	REF	UN122	4 bytes	Leaf	
155	02	20	03	02	00	00	00	00	00	00	Audience Reach	Audience Reach	The audience reach of the production	REF	UN122	4 bytes	Leaf	
156	02	20	03	03	00	00	00	00	00	00	Other Ratings	Other Ratings	Other ratings	REF	UN122	4 bytes	Leaf	
157	02	20	00	00	00	00	00	00	00	00	Participating parties	Participating Parties	Details of all parties, contributing to or taking part in the production - staff, contributors, and including those receiving Credits etc	REF			Note	
158	02	20	01	00	00	00	00	00	00	00	Persons (Groups and Individuals)	Representative	Details of persons contributing to or taking part in the production	REF			Note	
159	02	20	01	01	00	00	00	00	00	00	Nature of Person (Group or Individuals)	Nature of Person (Group or Individuals)	Group, Individual etc	REF			Note	
160	02	20	01	02	00	00	00	00	00	00	Production	Talent, Staff, etc	Details of Performing talent, Non performing talent, Production Staff, Technical staff, Specialist etc	REF			Note	
161	02	20	01	02	01	00	00	00	00	00	Contribution Status	Talent, Staff, etc	Performing talent, Non performing talent, Production Staff, Technical staff, Specialist etc	REF	ISO 7-bit character string	32 bytes max	Leaf	
162	02	20	01	03	00	00	00	00	00	00	Support and Administration	Support and Administration	Details of support and administrative staff or contributors - business management, resource planning, archiving etc	REF			Note	
163	02	20	01	03	01	00	00	00	00	00	Support/Administration Status	Support/Administration Staff	Contributing staff, finance staff etc	REF	ISO 7-bit character string	32 bytes max	Leaf	
164	02	20	02	00	00	00	00	00	00	00	Organisations and Public Bodies	Organisations and Public Bodies	Details of Organisations and Public Bodies contributing to or taking part in the production	REF			Note	
165	02	20	02	01	00	00	00	00	00	00	Kind of Organisation or Public Body	Kind of Organisation or Public Body	United company, government department etc.	REF	ISO 7-bit character string	32 bytes max	Leaf	

Code	SNAPTE Label	Japanese Names	Data Element Name	Data Element Definition	Unit	Type	Value Length	Value Range	Model Label	Defining Document
166	02 30 02 02 01 00 00 00 00	Production	Production	Details of performing contribution, Non performing contribution, Production contribution, Technical contribution, Speaker, etc.	REF1				Node	
167	02 30 02 02 01 00 00 00 00	Film Library	Contribution Status	eg. Film Library	REF1	ISO 7-bit char string	32 bytes max		Leaf	
168	02 30 02 03 00 00 00 00 00	Support and Administration	Support and Administration	Details of support and administrative contribution - business management, resource planning, archiving etc.	REF1				Node	
169	02 30 02 03 01 00 00 00 00	Support/Administration Staff	Support/Administration Status	eg. Barber	REF1	ISO 7-bit char string	32 bytes max		Leaf	
170	02 30 05 00 00 00 00 00 00	Job Function Information	Job Function Information	Information about the job location or role of participating parties	REF1				Node	
171	02 30 05 01 00 00 00 00 00	Job Function	Job Function	The function of the person(s), organisation or public body eg. Editor, Actor	REF1	ISO 7-bit char string	32 bytes max		Leaf	
172	02 30 05 02 00 00 00 00 00	Role	Role	eg. Name of character played	REF1	ISO 7-bit char string	32 bytes max		Leaf	
173	02 30 06 00 00 00 00 00 00	Contract Information	Contract Information	Contract information for the participating party	REF1				Node	
174	02 30 06 01 00 00 00 00 00	Contract Kind	Contract Kind	Check, supplier, useful etc.	REF1	ISO 7-bit char string	32 bytes max		Leaf	
175	02 30 06 02 00 00 00 00 00	Contract Department	Contract Department	Name information for a department within an organisation where contact can be made	REF1	ISO 7-bit char string	32 bytes max		Leaf	
176	02 30 06 03 00 00 00 00 00	Person or Organisation Details	Representative	The name of person(s), organisation or public body	REF1				Node	
177	02 30 06 03 01 00 00 00 00	Person Name	Person Name	Name information for persons	REF1				Node	
178	02 30 06 03 01 00 00 00 00	Family Name	Family Name	The family name of an individual	REF1	ISO 7-bit char string	32 bytes max		Leaf	
179	02 30 06 03 01 02 00 00 00	First Given Name	First Given Name	The first given name for an individual	REF1	ISO 7-bit char string	32 bytes max		Leaf	
180	02 30 06 03 01 03 00 00 00	Second Given Name	Second Given Name	The second given name for an individual	REF1	ISO 7-bit char string	32 bytes max		Leaf	

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5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	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214	03	02	01	02	00	00	00	00	00	Genre	Programme genre (e.g., entertainment, current affairs magazine, radio, television, ...) (Coded as Escal(24))	PREF	ISO 7-bit char string	12 bytes max	Type Node
215	03	02	01	03	00	00	00	00	00	Target Audience	Target audience (e.g., children, 17 to 22, elderly, ...)	PREF	ISO 7-bit char string	12 bytes max	Type Node
216	03	02	01	03	00	00	00	00	00	Cataloguing and Indexing	Archival analysis of the essence metadata	PREF			Node
217	03	02	01	03	00	00	00	00	00	Archival Catalogue	Archival metadata concerning the archival analysis metadata	PREF			Node
218	03	02	01	03	00	00	00	00	00	Status of The Metadata Set	The current status of the metadata set	PREF			Type Node
219	03	02	01	03	00	00	00	00	00	Status of The Metadata Set	The current status of the metadata set	PREF	ISO 7-bit char string	12 bytes max	Leaf
220	03	02	01	03	00	00	00	00	00	Cataloguing, Indexing or Thesaurus system used	The particular Cataloguing, Indexing or Thesaurus system used	PREF	ISO 7-bit char string	12 bytes max	Type Node
221	03	02	01	03	00	00	00	00	00	Theme	This category of the Theme of the content	PREF	ISO 7-bit char string	12 bytes max	Type Node
222	03	02	01	03	00	00	00	00	00	Genre	The category of the Genre of the content	PREF	ISO 7-bit char string	12 bytes max	Type Node
223	03	02	01	03	00	00	00	00	00	Subject Code	Subject Code	PREF	ISO 7-bit char string	12 bytes max	Type Node
224	03	02	01	03	00	00	00	00	00	Keywords	Words or phrases summarizing an aspect of the data set	PREF	ISO 7-bit char string	12 bytes max	Leaf
225	03	02	01	03	00	00	00	00	00	Key Frames	Reference to a key frame of video in the data set	PREF	ISO 7-bit char string	12 bytes max	Leaf
226	03	02	01	03	00	00	00	00	00	Key Sounds	Reference to a key sound in the data set	PREF	ISO 7-bit char string	12 bytes max	Leaf
227	03	02	01	03	00	00	00	00	00	Key Data	Reference to a key piece of data or program in the data set	PREF	ISO 7-bit char string	12 bytes max	Leaf
228	03	02	01	03	00	00	00	00	00	Textual Description	A textual characterization of the data set	PREF			Node
229	03	02	01	03	00	00	00	00	00	Abstract	A brief narrative summary of the data set	PREF	ISO 7-bit char string	1024 bytes max	Leaf
230	03	02	01	03	00	00	00	00	00	Purpose	A summary of the intentions with which the data set was developed	PREF	ISO 7-bit char string	12 bytes max	Leaf
231	03	02	01	03	00	00	00	00	00	Description	A textual description	PREF	ISO 7-bit char string	12 bytes max	Leaf

FIG. 15

217	03	02	02	00	00	00	00	00	Technical Value	Technical Value	Assessment of the technical value	PREF	ISO 7bit char string	32 bytes max	Leaf
218	03	02	02	00	00	00	00	00	Other Values	Other Values	Assessment of other relevant qualities	PREF	ISO 7bit char string	32 bytes max	Leaf
219	03	03	00	00	00	00	00	00	Descriptors (Machine Assigned or Computed)	Descriptors	Descriptor (Machine Assigned or Computed) relating to analysis of the content	PREF			Node
220	03	03	01	00	00	00	00	00	Categorisation	Categorisation	Analysed categorisation of the content	PREF			Node
221	03	03	01	01	00	00	00	00	Content Classification	Content Classification	Content classification	PREF			Node
222	03	03	01	02	00	00	00	00	Cataloguing and Indexing	Same as 217	Archival analysis of the essence metadata	PREF			Node
223	03	03	01	02	01	00	00	00	Catalogue History	Same as 216	Audit metadata concerning the archival analysis metadata	PREF			Node
224	03	03	01	02	01	00	00	00	Subset of Data Set	Same as 219	The current status of the metadata set	PREF	ISO 7bit char string	32 bytes max	Leaf
225	03	03	01	02	00	00	00	00	Cataloguing, Indexing or Thesaurus system used	Same as 221	The performer Cataloguing, Indexing or Thesaurus system used	PREF	ISO 7bit char string	32 bytes max	Leaf
226	03	03	01	02	00	00	00	00	Keywords	Same as 225	Words or phrases summarising an aspect of the data set	PREF	ISO 7bit char string	32 bytes max	Leaf
227	03	03	01	02	00	00	00	00	Key Frames	Same as 226	Reference to a key frame of video in the data set	PREF	ISO 7bit char string	32 bytes max	Leaf
228	03	03	01	02	00	00	00	00	Key Samples	Same as 227	Reference to a key sample in the data set	PREF	ISO 7bit char string	32 bytes max	Leaf
229	03	03	01	02	00	00	00	00	Key data	Same as 228	Reference to a key piece of data or program in the data set	PREF	ISO 7bit char string	32 bytes max	Leaf
230	03	03	01	06	00	00	00	00	Textual Description	Same as 229	A textual description of the data set	PREF			Node
231	03	03	01	07	00	00	00	00	Stream	Same as 235	The descriptive elements of the archival content elements of the content	PREF			Node
232	03	03	01	07	01	00	00	00	Stream load	Same as 236	eg. Background, action, sound nature etc.	PREF	ISO 7bit char string	32 bytes max	Leaf
233	04	00	00	00	00	00	00	00	PARAMETRIC	Class 4 Parameters	Class 4 is reserved for parametric and configuration metadata.	PREF			Node
234	04	01	00	00	00	00	00	00	Video Essence Encoding Characteristics	Video Encoding Parameters	Operating characteristics of the device creating the essence.	PREF			Node

Code	Source	Destination	Element Name	Japanese Name	Data Element Definition	Type	Value Length	Value Range	Note/Lead	Defining Document
235	04 01 01 00 00 00 00 00	00	Video Fundamental Characteristics	Video Fundamental Characteristics	Fundamental video characteristics	PREF			Note	
236	04 01 01 01 00 00 00 00	00	Video Source Device	Video Source Device	Indicates the type of the video source.	PREF ISO 7418 char string	32 bytes max		Lead	
237	04 01 01 02 00 00 00 00	00	Fundamental opto-electric stimulation	OE Transfer etc Characteristics	Fundamental opto-electric transfer etc characteristics	PREF			Note	
238	04 01 01 02 01 00 00 00	00	Gamma Information	Gamma Characteristics	Specifies the non-linear relationship between linear scene light levels and amplitude-compressed video signal levels.	PREF			Type Note	
239	04 01 01 02 01 01 00 00	00	Gamma Equation	Gamma Equation	Specifies the non-linear relationship between linear scene light levels and amplitude-compressed video signal levels.	PREF ISO 7418 char	4 chars max	See types dictionary	Lead	ISO 7232
240	04 01 01 02 01 02 00 00	00	Gamma	Gamma	Specifies expected gamma output settings on video display	PREF	1 bytes		Lead	
241	04 01 01 02 02 00 00 00	00	Luma Equation	Luma Equation	Specifies the equation used to derive luma and chroma from gamma-corrected RGB signals	PREF ISO 7418 char	4 chars max	See types dictionary	Lead	
242	04 01 01 02 03 00 00 00	00	Colorimetry Code	Colorimetry Code	The fundamental color coding that relates the scene CIE tri-stimulus values X, Y, Z to the linear video luma (R, G, B).	PREF ISO 7418 char	4 chars max	See types dictionary	Lead	
243	04 01 01 03 00 00 00 00	00	Fundamental sequencing and scanning	Scanning Information	Fundamental scanning and sequencing information	PREF			Note	
244	04 01 01 03 01 00 00 00	00	Signal Frame Code	Component Sequence	Code specifies the component sequence for the video pixel units.	PREF ISO 7418 char	4 chars max	See types dictionary	Lead	
245	04 01 01 03 02 00 00 00	00	Color Field Code	Color Frame Index	Identifies the color field of the source video field for video derived from composite sources.	PREF Unid	1 byte	000 = default, 010 = odd-numbered	Lead	
246	04 01 01 03 03 00 00 00	00	Vertical Rate	Vertical Rate	Specifies the vertical rate of the video scanning system.	PREF Unid	1 byte	See types dictionary	Lead	
247	04 01 01 03 04 00 00 00	00	Frame Rate	Frame Rate	The rate that video images are captured, expressed in frames per second.	PREF Unid	1 byte	See types dictionary	Lead	
248	04 01 01 04 00 00 00 00	00	Image dimensions	Image Dimensions	Specifies information about the horizontal and vertical dimensions of an image.	PREF Unid	1 byte	See types dictionary	Note	
249	04 01 01 04 01 00 00 00	00	Image lines	Image Lines	Specifies information about the number of vertical scan lines	PREF			Note	

200	04	01	01	04	01	01	00	00	00	Total Lines per Frame	Specifies the number of lines in a total frame in the video scanning system.	REF	Unit 16	2 bytes		Leaf	
201	04	01	01	04	01	02	00	00	00	Active Lines per Frame	Specifies the total number of lines (rows) in the active portion of a frame in the video input matrix.	REF	Unit 16	2 bytes		Leaf	
202	04	01	01	04	01	03	00	00	00	Leading Lines	Specifies number of blank lines before image	REF	Unit 2	4 bytes		Leaf	W25.52
203	04	01	01	04	01	04	00	00	00	Trailing Lines	Specifies number of blank lines after image	REF	Unit 2	4 bytes		Leaf	W25.52
204	04	01	01	04	02	00	00	00	00	Horizontal and Vertical Dimensions	Specifies information about the horizontal and vertical dimensions of an image.	REF				Node	
205	04	01	01	04	02	01	01	00	00	Aspect Ratio	Specifies the horizontal to vertical aspect ratio of the image as it is to be displayed.	REF				Type Node	
206	04	01	01	04	02	01	01	01	01	Image Aspect Ratio	Specifies the image aspect ratio	REF	Unsigned Char	1 byte		Leaf	
207	04	01	01	04	02	01	01	02	00	Same as 207	Specifies the image aspect ratio	REF	Unit 1	8 bytes		Leaf	W25.52
208	04	01	01	04	02	01	02	00	00	Capture Aspect Ratio	Specifies the horizontal to vertical aspect ratio of the image captured at the sensor.	REF	Unsigned Char	1 byte	See types dictionary	Leaf	
209	04	01	01	04	02	02	00	00	00	Stored Height	Specifies height of stored image	REF	Unit 2	4 bytes		Leaf	W25.52
210	04	01	01	04	02	03	00	00	00	Stored Width	Specifies width of stored image	REF	Unit 2	4 bytes		Leaf	W25.52
211	04	01	01	04	02	04	00	00	00	Sampled Height	Specifies height of sampled image	REF	Unit 2	4 bytes		Leaf	W25.52
212	04	01	01	04	02	05	00	00	00	Sampled Width	Specifies width of sampled image	REF	Unit 2	4 bytes		Leaf	W25.52
213	04	01	01	04	02	06	00	00	00	Sampled X Offset	Specifies X offset of sampled image	REF	Unit 2	4 bytes		Leaf	W25.52
214	04	01	01	04	02	07	00	00	00	Sampled Y Offset	Specifies Y offset of sampled image	REF	Unit 2	4 bytes		Leaf	W25.52
215	04	01	01	04	02	08	00	00	00	Display Height	Specifies height of displayed image	REF	Unit 2	4 bytes		Leaf	W25.52
216	04	01	01	04	02	09	00	00	00	Display Width	Specifies width of displayed image	REF	Unit 2	4 bytes		Leaf	W25.52
217	04	01	01	04	02	0A	00	00	00	Display X Offset	Specifies X offset of displayed image	REF	Unit 2	4 bytes		Leaf	W25.52

Code	SMPT Label						Data Element Name	Japanese Names	Data Element Definition	Type	Value Length	Value Range	Notes/Ref	Defining Document
298	04 01 01 04 02 00 00						Display/Offset	Display Y Offset	Specifies Y offset of displayed image	REF	4 bytes		Leaf	WVS.52
299	04 01 01 05 00 00 00						Video Coding Characteristics	Video Original Signal Characteristics	Information about the original analogous coding of the essence	REF			Node	
300	04 01 01 05 01 00 00						Analogous Video System	Analogous Video Characteristics	PAL, NTSC, etc	REF	4 chars max	See types dictionary	Leaf	
301	04 01 01 05 03 00 00						Luminance Sample rate	Luminance Sample Rate	This luminance sample rate	REF	1 byte	See types dictionary	Leaf	
302	04 01 01 05 04 00 00						Active Samples per Line	Active Samples Per Line	Total number of samples (columns) in the active portion of a line in the video pixel matrix.	REF	2 bytes		Leaf	
303	04 01 01 05 05 00 00						Total Samples per Line	Total Samples Per Line	Specifies the number of samples in a total line in the video pixel matrix.	REF	2 bytes		Leaf	
304	04 01 01 05 06 00 00						Bits Per Pixel	Bits Per Pixel	The maximum number of significant bits for the value in each band of each pixel without compression.	REF	1 byte		Leaf	
305	04 01 01 05 07 00 00						Sampling Information	Sampling Information	Description of the compound sampling	REF			Node	
306	04 01 01 05 07 01 00 00						Sampling Hierarchy Code	Sampling Hierarchy Code	A code that specifies the component sampling hierarchy for the video pixel matrix.	REF	4 chars max	See types dictionary	Leaf	
307	04 01 01 05 07 02 00 00						Horizontal Subsampling	Horizontal Subsampling	Specifies ratio of luminance subsampling to chrominance subsampling in horizontal direction	REF	4 bytes		Leaf	WVS.52
308	04 01 01 05 07 03 00 00						Color Siting ?	Color Siting ?	Specifies how to compute subsampled chrominance values	REF	2 bytes		Leaf	WVS.52
309	04 01 01 05 08 00 00 00						Rounding Method Code	Rounding Method Code	Specifies the rounding method that has been applied to the digital samples of the video signal.	REF	4 chars max	See types dictionary	Leaf	
310	04 01 01 05 09 00 00 00						Filtering Code	Filtering Code	Specifies the spatial filtering that has been applied to the digital samples of the video signal.	REF	4 chars max	See types dictionary	Leaf	
311	04 01 01 05 10 00 00 00						Sampling Structure	Sampling Structure	Description of the sampling structure of the video scanning system, such as Progressive and sample frame.	REF			Node	
312	04 01 01 05 10 01 00 00						Sampling Structure Code	Sampling Structure Code	A code that specifies the analogue or digital sampling structure for the video scanning system. Eg Progressive	REF	1 byte	See types dictionary	Leaf	

313	04	01	01	05	10	02	00	00	Frame Layout	Frame Layout	Specifies frame layout (interlaced, single frame, full frame, etc.)	REF	Layout type	12 bytes	Leaf	W25.52
314	04	01	01	05	0A	00	00	00	Video Overlay	Line Field Information	Specifies relationship between scanned lines and source fields	REF	Array of int32	8 bytes	Leaf	W25.52
315	04	01	01	05	0B	00	00	00	Alpha Transparency	Signal Transparency	Specifies whether 0 or the maximum value is transparent	REF	int32	4 bytes	Leaf	W25.52
316	04	01	01	05	0C	00	00	00	Component Width	Component Width	Specifies component width in bits	REF	int32	4 bytes	Leaf	W25.52
317	04	01	01	05	0D	00	00	00	Black Reference Level	Black Reference Level	Specifies digital luminance associated with black	REF	uint32	4 bytes	Leaf	W25.52
318	04	01	01	05	0E	00	00	00	White Reference Level	White Reference Level	Specifies digital luminance associated with white	REF	uint32	4 bytes	Leaf	W25.52
319	04	01	01	05	0F	00	00	00	Color Range	Color Dynamic Range	Specifies range of allowable chrominance values	REF	uint32	4 bytes	Leaf	W25.52
320	04	01	01	05	11	00	00	00	Pixel Layout	Order of Color Components	Specifies order of components	REF	RGBALayout		Leaf	W25.52
321	04	01	01	05	12	00	00	00	Palette	Color Palette	Specifies palette containing colors	REF	Drawable	variable	Leaf	W25.52
322	04	01	01	05	13	00	00	00	Palette Layout	Palette Layout ?	Specifies layout of components in palette	REF	RGBALayout		Leaf	W25.52
323	04	01	01	05	14	00	00	00	Is Interlaced	Number of Same Data in Horizontal Direction of Original Signal	Specifies if the data has the same number of rows in strip throughout	REF	Boolean	1 byte	Leaf	W25.52
324	04	01	01	05	15	00	00	00	Is Contiguous	Number of Stored Contiguous Bytes	Specifies if the data is stored in contiguous bytes	REF	Boolean	1 byte	Leaf	W25.52
325	04	01	01	05	16	00	00	00	JPEGtableID	JPEG Table	Specifies JPEG table used to compress video	REF	JPEGtableIDType		Leaf	W25.52
326	04	01	01	05	17	00	00	00	TIFFDescriptor_Summary	TIFF Parameters	Contains the TIFF format summary data	REF	Drawable	variable	Leaf	W25.52
327	04	01	01	05	18	00	00	00	MPEG Coding Characteristics	MPEG Coding Characteristics	Information about MPEG video coding	REF				
328	04	01	01	05	1A	02	00	00	MPEG-2 Coding Characteristics	MPEG-2 Coding Characteristics	Information about MPEG-2 video coding	REF				
329	04	01	01	05	1B	02	01	00	Field Frame Type Code	Field Frame Type Code	Specifies the field or frame type of the source video image for video derived from compressed source. Eg. 1 B or P	REF	ISO_Avt_dau	1 char	Leaf	7, 8 or P
330	04	01	02	00	00	00	00	00	Film parameters	Film Parameters	Information about film	REF				Notes

Line	Start	End	Sub-Element	Element Name	Japanese Names	Data Element Definition	Line #	Type	Value Length	Value Range	Model Leaf	Defining Document
331	01	02	01	00	00	00	00	00	00	00	Node	
332	04	01	02	01	00	00	00	00	00	00	Leaf	
333	04	01	02	01	00	00	00	00	00	00	Leaf	
334	04	01	02	01	00	00	00	00	00	00	Node	
335	04	01	02	01	00	00	00	00	00	00	Leaf	
336	04	01	02	01	00	00	00	00	00	00	Leaf	
337	04	01	02	01	00	00	00	00	00	00	Leaf	W25.52
338	04	01	02	01	00	00	00	00	00	00	Leaf	W25.52
339	04	01	02	01	00	00	00	00	00	00	Leaf	W25.52
340	04	01	02	01	00	00	00	00	00	00	Node	
341	04	01	02	01	00	00	00	00	00	00	Leaf	
342	04	01	02	01	00	00	00	00	00	00	Leaf	
343	04	01	02	01	00	00	00	00	00	00	Leaf	W25.52
344	04	01	02	01	00	00	00	00	00	00	Node	
345	04	01	02	01	00	00	00	00	00	00	Leaf	

FIG.18

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Code	SNMP Label	Japanese Name	Data Element Name	Data Element Definition	Unit	Type	Value Length	Value Range	Model/Leaf	Defining Document
351	04 01 00 00 00 00	Audio Fundamental Characteristics	Audio Fundamental Characteristics	Fundamental audio characteristics		REF			Node	
352	04 02 01 00 00 00	Audio Source Device	Audio Source Device	Indicates the type of the audio source.		ISO 741 char string	32 bytes max		Leaf	
353	04 02 01 00 00 00	Fundamental audio formulation	Fundamental audio formulation	Number of recording channels used, analogue or digital recording device, analogue or digital mixing console		REF			Node	
354	04 02 01 00 00 00	Channel Division	Channel Division	Mono, Dual mono, Stereo A+B, Stereo HAS, Dolby surround, MPEG BC/NEC etc		REF	Unpaired Char	See pages 4-6	Leaf	
355	04 02 01 00 00 00	Audio Filtering Characteristics	Audio Filtering Characteristics	e.g. Acoustic, etc		REF	ISO 741 char string		Leaf	
356	04 02 01 00 00 00	Audio Reference Level	Audio Reference Level	Number of dBm to 0VU		REF	Unit		Leaf	
357	04 02 01 00 00 00	Number of audio channels in mix	Number of audio channels in mix	The number of audio channels in the mix		REF			Node	
358	04 02 01 00 00 00	Mono channels	Mono channels	The number of mono channels in the mix		REF	Unit	1 to 255	Leaf	
359	04 02 01 00 00 00	Stereo channels	Stereo channels	The number of stereo channels in the mix		REF	Unit	1 to 255	Leaf	
360	04 02 01 00 00 00	Physical Track Number	Physical Track Number	Identifies the physical track associated with the set		REF	Unit		Leaf	
361	04 02 01 00 00 00	Film sound source	Film sound source	Indicates the film sound source		REF			Node	
362	04 02 01 00 00 00	Optical track	Optical track	The kind of optical track from which the sound was recovered		REF	ISO 741 char string		Leaf	
363	04 02 01 00 00 00	Magnetic track	Magnetic track	The kind of magnetic track from which the sound was recovered		REF	ISO 741 char string		Leaf	
364	04 02 01 00 00 00	Analogue Audio Coding Characteristics	Analogue Audio Coding Characteristics	Information about the original analogue coding of the essence		REF			Node	
365	04 02 01 00 00 00	Analogue system	Analogue system	Ref. Dolby A, etc		REF	ISO 741 char string		Leaf	

379	04	02	03	00	00	00	00	00	00	Digital Audio Sampling Characteristics	Audio Sampling Characteristics	Sampling frequency, reference clock, bits per sample, rounding, other (rectangle, triangle, etc.)	REF			Node
380	04	02	03	01	00	00	00	00	00	Sample rate	Sample Rate	The sample rate	REF	1 byte	See types dictionary	Leaf
381	04	02	03	02	00	00	00	00	00	Reference clock frequency	Clock Frequency	The reference clock frequency in Hz	REF	1 byte	See types dictionary	Leaf
382	04	02	03	03	00	00	00	00	00	Bits per Sample	Bits Per Samples	The maximum number of significant bits for the value without compression.	REF	1 byte		Leaf
383	04	02	03	04	00	00	00	00	00	Rounding law	Rounding Law	The rounding law applied	REF	ISO 741 char	See types dictionary	Leaf
384	04	02	03	05	00	00	00	00	00	Dither	Dither	rectangle, triangle, PO	REF	ISO 741 char	See types dictionary	Leaf
385	04	02	04	00	00	00	00	00	00	Digital Audio Coding Characteristics	Audio Coding Characteristics	Information about the essence digital coding	REF			Node
386	04	02	04	01	00	00	00	00	00	Coding Law	Coding Law	Type of coding (ulaw, Alaw, block compressing G.711, G.722, MPEG type, layer no, Doby AC, ...)	REF	ISO 741 char	See types dictionary	Leaf
387	04	02	04	02	00	00	00	00	00	Layer number	Layer Number	The layer number of the digital coding	REF	1 byte		Leaf
388	04	02	04	03	00	00	00	00	00	Average Bit rate	Average Bit Rate	The Average bit rate	REF	Reading Point		Leaf
389	04	02	04	04	00	00	00	00	00	Fixed bitrate	Fixed Bit Rate	fixed = TRUE, variable = FALSE	REF	Boolean	100% FALSE, 0% TRUE	Leaf
390	04	02	07	00	00	00	00	00	00	Audio test parameters	Audio Test Parameters	Audio test parameters from the original recording	REF			Node
391	04	02	07	01	00	00	00	00	00	Signal to noise ratio	SNR	The measured signal to noise ratio of the original recording	REF	Reading Point		Leaf
392	04	02	07	02	00	00	00	00	00	Weighting	Weighting	The weighting used in measurements	REF	ISO 741 char	See types dictionary	Leaf
393	04	02	08	00	00	00	00	00	00	Audio summary information	Audio Summary Information		REF			Node
394	04	02	08	01	00	00	00	00	00	AFQ-Descriptor Summary	AFQ-Descriptor Summary	Contains AFQ format summary	REF	Data Value	variable	WDS.52
395	04	02	08	02	00	00	00	00	00	WAVE-descriptor Summary	Wave Format Summary	Contains the WAVE audio format summary data	REF	Data Value	variable	WDS.52
396	04	02	09	00	00	00	00	00	00	Data Essence Encoding Characteristics	Encoding Method	Operating characteristics of the device creating the data essence.	REF			Node

Code	Label	Japanese Name	Data Element Name	Data Element Definition	Type	Value Length	Value Range	Model/Leaf	Defining Document
397	03 03 01 00 00 00 00	Fundamental Characteristics	Data Essence Fundamental Characteristics	Fundamental Data characteristics	REF			Node	
398	04 03 01 01 00 00 00	Information About Original Signals	Analogue Data Essence Coding Characteristics	Information about the original analogue coding of the data essence	REF			Node	
399	04 03 01 01 01 00 00	Analogue Data Coding	Analogue Data Coding	eg. Teletext	REF	ISO 7404	4 characters See types dictionary	Leaf	
400	04 03 02 00 00 00 00	Digital Coding Characteristics	Digital Coding Characteristics	Information about the data essence digital coding	REF			Node	
401	04 03 03 00 00 00 00	Data From The Original Recording	Data From The Original Recording	Data test parameters from the original recording	REF			Node	
402	04 04 00 00 00 00 00	Metadata Device Characteristics	Metadata Device Characteristics	Operating characteristics of the device creating the metadata	REF			Node	
403	04 04 01 00 00 00 00	Metadata Fundamental Characteristics	Metadata Fundamental Characteristics	Fundamental Metadata characteristics	REF			Node	
404	04 04 01 01 00 00 00	Timescode Characteristics	Timescode Characteristics	Characteristics of timescode metadata	REF			Node	
405	04 04 01 01 01 00 00	Time Code Kind	Time Code Kind	eg. Dropframe, non drop frame, EBU, 30/24, 25/24 etc	REF			Node	
406	04 04 01 01 01 01 00	Timecode Kind	Timecode Kind	Timecode Kind expressed as a ISO 7418 string	REF	ISO 7418 char	4 characters See types dictionary	Leaf	
407	04 04 01 01 01 02 00 00	Drop	Drop	Specifies whether timescode is drop frame	REF	Boolean	1 byte	Leaf	W25.52
408	04 04 01 01 01 03 00 00	Source type	Source type	Specifies whether timescode is LTC or VITC	REF	TCSource	2 bytes	Leaf	W25.52
409	04 04 01 01 02 00 00 00	Timescode Timebase	Timescode Timebase	eg. 24, 23, 30, 60, 48	REF			Type Node	
410	04 04 01 01 02 01 00 00	Timescode Timebase	Timescode Timebase	eg. 24, 23, 30, 60, 48	REF	Units	1 byte	Leaf	
411	04 04 01 01 02 02 00 00	FPS	FPS	Specifies frames per second	REF	Units 0	2 bytes	Leaf	W25.52

FIG. 20

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Line #	SNMP Field					Japanese Names	Data Element Definition	Line #	Type	Value Length	Value Range	Model/Leaf	Defining Document
430	04 01 00 01 00 00 00 00	General Essence Encoding Characteristics	General Essence Encoding Characteristics			General Essence Encoding Characteristics	Characteristics that apply to more than one type of essence	REF				Node	
431	04 06 01 01 00 00 00 00	Sample Rate	Sample Rate			Sampling Rate	Specifies the sample rate of essence data	REF	Rational	16 bytes		Leaf	W23.32
432	04 06 01 02 00 00 00 00	Length	Length			Length	Specifies the number of samples of essence data	REF	Length	16 bytes		Leaf	W23.32
433	04 06 02 00 00 00 00 00	Container encoding Characteristics	Container encoding Characteristics			Container Encoding Characteristics	Characteristics that apply to the container of the metadata or essence	REF				Node	
434	04 06 02 01 00 00 00 00	Byte Order	Byte Order			Byte Order	Specifies the byte order of the metadata	REF	Int8	2 bytes		Leaf	
435	04 07 00 00 00 00 00 00	Storage Medium parameters	Storage Medium parameters			Storage Medium Information	Characteristics that describe the physical media such as cartridge size	REF				Node	
436	04 07 01 00 00 00 00 00	Tape cartridge format	Tape cartridge format			Tape Cartridge Format		REF				Node	
437	04 07 01 01 00 00 00 00	Widescope gauge and format	Widescope gauge and format			Widescope Gauge	The gauge and format of the videotape eg. Betamax SP, Hi8MS 2UP	REF	ISO 7418 char string	32 bytes max		Leaf	
438	04 07 01 02 00 00 00 00	Powr factor	Powr factor			Size of Tape	Specifies the physical size of tape	REF	TapeCartrType	2 bytes		Leaf	W23.32
439	04 07 01 03 00 00 00 00	VideoSignal	VideoSignal			Signal Form	Specifies whether the tape is NTSC, PAL, or SECAM	REF	VideoSignalType	2 bytes		Leaf	W23.32
440	04 07 01 04 00 00 00 00	TapeFormat	TapeFormat			Tape Format	Describes the format of the tape	REF	TapeFormatType	2 bytes		Leaf	W23.32
441	04 07 01 05 00 00 00 00	Length	Length			Recording Time	Specifies the tape capacity in minutes	REF	Length	16 bytes		Leaf	W23.32
442	04 07 01 06 00 00 00 00	TapeManufacturer	TapeManufacturer			Tape Manufacturer	Specifies the SUPTE data or AUID that identifies the manufacturer	REF	Unicode String	variable		Leaf	W23.32
443	04 07 01 07 00 00 00 00	Model	Model			Tape Model Number	Specifies the tape model number	REF	Unicode String	variable		Leaf	W23.32
444	04 07 02 00 00 00 00 00	Data recorder parameters	Data recorder information			Disc Recorder Information	Information about the recorder disc	REF				Node	

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Line #	SMPTE label			Data Element Name	Japanese Names	Data Element Definition	Unit Type	Value Length	Value Range	Model/Led	Delineating Document
463	04 10 01 01 02 00 00 00			Sensor Type Code	CCD Size of Original Signals	Code indicating type of sensor that produced the original video content.	REF ISO 781 char	4 chars max	See types dictionary	Leaf	
464	04 10 01 01 03 00 00 00			Field of View	Field of View	Sensor field of view, in degrees.	REF Floating Point	4 bytes		Leaf	
465	04 10 01 01 04 00 00 00			Anamorphic lens characteristic	Special Lens	eg PAL,anamorphic	REF ISO 781 char	4 chars max	See types dictionary	Leaf	
466	04 10 01 02 00 00 00 00			Optical Test parameters	Optical Test Characteristics	Optical test parameters from the original recording	REF			Node	
467	04 10 01 02 00 00 00 00			Optical Sensor Characteristics	Sensor Characteristics	Information about the optical sensor used	REF			Node	
468	04 10 01 02 01 00 00 00			Raw	Pure Characteristics	Pure test measurements	REF Floating Point	4 bytes		Leaf	
469	04 10 02 00 00 00 00 00			Microphone Characteristics (a)	Microphone Characteristics	Information about microphones used	REF			Node	
470	04 10 02 01 00 00 00 00			Sensor type	Sensor Type	Transducer principle	REF ISO 781 char	4 chars max	See types dictionary	Leaf	
471	04 10 02 02 00 00 00 00			Polar characteristic	Polar Characteristics	polar patterns	REF ISO 781 char string	32 bytes max		Leaf	
472	04 15 00 00 00 00 00 00			Image Characteristics	Image Characteristics	The specific category of imagery	REF			Node	
473	04 15 01 00 00 00 00 00			Image Category	Image Category	Identifies the specific category of imagery taken revealing the nature of the collector or intended user. Format is as defined in INT-620 in addition to those defined here.	REF ISO 781 char string	32 bytes max		Leaf	
474	05 00 00 00 00 00 00 00			PROCESS	Class 5 Process	Class 5 is reserved for information about the essence processing	REF			Node	
475	05 01 00 00 00 00 00 00			Process Indicators	Process Status Flag	Flags describing the process status of the essence	REF			Node	
476	05 01 01 00 00 00 00 00			Fundamental	Fundamental Information	Information about process fundamentals	REF			Node	
477	05 01 01 00 00 00 00 00			Integration Indicator	Display Segment of A Clip or Shot	A term that describes what the essence is as a unit value of the essence. Terms must be consistent with industry or organizational practices to be useful. Indicates a segment of a clip or shot.	REF ISO 781 char string	32 bytes max		Leaf	

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Line #	SUITE label				Data Element Name	Japanese Names	Data Element Definition	E- S- P- Type	Value Length	Value Range	Model Label	Defining Document
486	05_02_02	00	00	00	Audio Compression History	Audio Compression History	Audio history of compression for audio payload.	REF			Note	
497	05_02_02	01	00	00	Audio Compression Algorithm	Audio Compression Algorithm	Algorithm used, library used, modes used.	REF ISO 781char	4 char max	See types dictionary	Leaf	
498	05_02_02	00	00	00	MPEG-2 Audio dynamic coding history	Audio Coding History	Quantization per subband, scale factors as per SUPTBXXX.	REF	as per standard		Leaf	
499	05_02_02	00	00	00	Audio Noise Reduction Algorithm	Noise Reduction Algorithm	Algorithm used in a noise reduction process - eg Dolby SR, iLBM, etc.	REF ISO 781char	4 char max	See types dictionary	Leaf	
500	05_02_00	00	00	00	Data Compression History	Same as 491	Audio history of compression for payload.	REF			Note	
501	05_02_04	00	00	00	Metadata Compression History	Metadata Compression History	Audio history of compression for payload.	REF			Note	
502	05_10_00	00	00	00	MPEG Processing	MPEG Processing	MPEG processing performed on the essence.	REF			Note	
503	05_10_01	00	00	00	Splicing Metadata	Splicing Metadata	MPEG-2 splicing metadata as defined in SMP-CP EMM and SMPTE 312M.	REF	as per standard		Leaf	
504	05_20_00	00	00	00	Enhancement or Modification	Enhancement or Modification	Enhancement or modification to the essence.	REF			Note	
505	05_20_01	00	00	00	Video processing	Modification to The Video Essence	Enhancement or modification to the video essence.	REF			Note	
506	05_20_01	00	00	00	Enhancement or Modification Description	Modification Description	Description of how video content was modified.	REF ISO 781char string	12 bytes max		Leaf	
507	05_20_01	00	00	00	Video processes software (Device specific)	Device Designation	The settings of a specific device in the system.	REF			Note	
508	05_20_01	00	00	00	Device kind	Device Kind	Specific description for a device - eg for the the camera, film grading, video camera, variable gain amplifier etc.	REF ISO 781char string	32 bytes max		Leaf	
509	05_20_01	00	00	00	Device parameter	Device Parameter	Specific parameter for the specified device eg. Overall gain, Auto IR, color.	REF ISO 781char string	32 bytes max		Leaf	
510	05_20_01	00	00	00	Device parameters setting	Same as 510	The ending of the specific parameter for the specified device.	REF ISO 781char string	32 bytes max		Leaf	

BNSDOCID: <EP_____1187476A1_I_>

Line #	Sub-Label	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1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344	05	20	10	05	00	00	00	00	00	Number of Input Segments	Species number of input segments		isC02	4 bytes	Leaf	W25.52
345	05	20	10	05	00	00	00	00	00	Bypass Information	Species external input to play		Unicode	4 bytes	Leaf	W25.52
346	05	20	10	05	00	00	00	00	00	Editing Web Information					Node	
347	05	20	10	05	01	00	00	00	00	Begin	Species start of reference		Unicode String	variable	Leaf	W25.52
348	05	20	10	05	02	00	00	00	00	End	Species end of reference		Unicode String	variable	Leaf	W25.52
349	05	20	10	07	00	00	00	00	00	Editing Notes					Node	
350	05	20	10	07	01	00	00	00	00	Tag Information	Species the tag		Unicode String	variable	Leaf	W25.52
351	05	20	10	07	02	00	00	00	00	Value Information	Species the tagged value		Unicode	variable	Leaf	W25.52
352	05	20	10	00	00	00	00	00	00	Class 8 Information About The Relationships Between Data	Class 8 is reserved for information about the relationships between data				Node	
353	05	01	00	00	00	00	00	00	00	Relationships	What is being related?				Node	
354	05	01	01	00	00	00	00	00	00	Relation Type	Type of relation (e.g., input of a module of program, series, parent, parasite, ...)				Node	
355	05	01	01	01	00	00	00	00	00	Correlative Value	The relationship value is limits of Parent/et Child/et Item of Excerpt/et Version of Completion of, etc		ISO 761 char string	32 bytes max	Node	
356	05	01	01	01	01	00	00	00	00	Source Material	For ased tracking				Node	
357	05	01	01	01	01	01	00	00	00	UNID	For ased tracking		REF UNID		Leaf	
358	05	01	01	01	01	02	00	00	00	Source Material	For ased tracking		ISO 761 char string	32 bytes max	Leaf	
359	00	01	01	01	02	00	00	00	00	Most Recent Edited Text	For ased tracking				Node	
360	05	01	01	01	01	01	00	00	00	Most Recent UNID	For ased tracking		REF UNID		Leaf	
361	05	01	01	01	01	02	00	00	00	Same as 560	For ased tracking		ISO 761 char string	32 bytes max	Leaf	

Line #	Sub-Label	Japanese Names	Data Element Name	Japanese Names	Data Element Definition	Line #	Type	Value Length	Value Range	Model/Leaf	Defining Document
542	06 01 01 02	Metadata To Essence	Metadata To Essence	Metadata To Essence	The relationship between metadata and essence	542	REF			Node	
543	06 01 01 03	Metadata To Metadata	Metadata To Metadata	Metadata To Metadata	The relationship value in terms of Parent of, Child of,	543	REF			Node	
544	06 01 01 04	Object To Object	Object To Object	Object To Object	The relationship value in terms of Parent of, Child of, Item of,	544	REF			Node	
545	06 01 01 05	Metadata To Object	Metadata To Object	Metadata To Object	The relationship between metadata and an object	545	REF			Node	
546	06 02 00 00	Related production material	Related production material	Related To Production Material	Related production material	546	REF			Node	
547	06 02 01 01	Programme support material	Programme support material	Relation To Support Material	eg printed educational material	547	ISO 7-bit char string	127 bytes max		Leaf	
548	06 02 01 02	Programme advertising material	Programme advertising material	Relation To Advertising Material	eg printed advertising material	548	ISO 7-bit char string	127 bytes max		Leaf	
549	06 02 01 03	Programme commercial material	Programme commercial material	Relation To Commercial Material	eg Maps, Texts, recordings	549	ISO 7-bit char string	127 bytes max		Leaf	
550	06 03 00 00	Numerical sequence	Numerical sequence	Information About Numerical Sequence	Information about numerical sequences	550	REF			Node	
551	06 03 01 00	Numerical position in sequence	Numerical position in sequence	Numerical Sequence	1, 2, 3 etc	551	REF	4 bytes		Leaf	
552	06 03 03 00	Relative position in sequence (value)	Relative position in sequence (value)	Offset Information	Numerical offset	552	REF	4 bytes		Leaf	
553	06 03 03 00	Relative position in sequence (descriptive)	Relative position in sequence (descriptive)	Previous, Next Information	previous, next etc	553	REF			Type Node	
554	06 03 03 01	Relative position in sequence (descriptive)	Relative position in sequence (descriptive)	Previous, Next Information	previous, next etc	554	ISO 7-bit char string	32 bytes max		Leaf	
555	06 04 00 00	Relationship studies	Relationship studies	Relationship of Structure		555	REF			Node	
556	06 04 01 00	Containing relations	Containing relations	Containing Relations		556	REF			Node	

FIG.25

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Line #	Japanese Name	Data Element Name	Data Element Definition	Type	Value Length	Value Range	Model Leaf	Defining Document
595	Properties	Properties	Contains properties defined for class	StrongReferenceSet/NA	NA	Property Definition	Leaf	W25.52
596	Locations	Locations	Specifies location of plugins	StrongReferenceSet/NA	NA	Locator	Leaf	W25.52
597	Class Definitions	Class Definitions	Contains class definitions	StrongReferenceSet/NA	NA	Class Definition	Leaf	W25.52
598	Type Definitions	Type Definitions	Contains type definitions	StrongReferenceSet/NA	NA	Type Definition	Leaf	W25.52
599	Operation Definitions	Operation Definitions	Contains operation definitions	StrongReferenceSet/NA	NA	Operation Definition	Leaf	W25.52
600	Parameter Definitions	Parameter Definitions	Contains operation parameter definitions	StrongReferenceSet/NA	NA	Parameter Definition	Leaf	W25.52
601	Data Definitions	Data Definitions	Contains data definitions	StrongReferenceSet/NA	NA	Data Definition	Leaf	W25.52
602	Plugin Descriptors	Plugin Descriptors	Contains plugin descriptors	StrongReferenceSet/NA	NA	Plugin Descriptor	Leaf	W25.52
603	Code Definitions	Code Definitions	Contains code definitions	StrongReferenceSet/NA	NA	Code Definition	Leaf	W25.52
604	Container Definitions	Container Definitions	Contains container definitions	StrongReferenceSet/NA	NA	Container Definition	Leaf	W25.52
605	Interpolation Definitions	Interpolation Definitions	Contains interpolator definitions	StrongReferenceSet/NA	NA	Interpolator Definition	Leaf	W25.52
606	User Comments	Comments	Contains user comments about model	StrongReferenceSet/NA	NA	Tagged Value	Leaf	W25.52
607	Contains ordered set	Contains Sequence					Node	
608	Choices	Format Specifications	Specifies some essential different formats	StrongReferenceSet/NA	NA	Source Reference	Leaf	W25.52
609	Input Segments	Input Segment	Specifies the input to the operation	StrongReferenceSet/NA	NA	Segment	Leaf	W25.52

FIG.26

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Line No.	Supplement					Data Element Name	Japanese Name	Data Element Definition	Link Type	Value Length	Value Range	Noted Leaf	Defining Document
E25	05	04	02	01	00	00	Property	Specifies data type of property	REF	16 bytes	TypeDefinition	Leaf	W23.52
E26	05	04	02	01	00	00	Category	Specifies definition object associated with plug	REF	16 bytes	DefinitionObject	Leaf	W23.52
E27	05	04	02	01	00	00	File Descriptor	Identifies FileDescriptor associated with codes	REF	16 bytes	ClassDefinition	Leaf	W23.52
E28	05	04	02	01	00	00	Web ID	Specifies method descriptor essence	REF	16 bytes	Web	Leaf	W23.52
E29	05	04	02	01	00	00	Container Format	Specifies container definition	REF	16 bytes	ContainerDefinition	Leaf	W23.52
E30	05	04	02	01	00	00	Parameter Definition	Specifies the Parameter Definition	REF	16 bytes	ParameterDefinition	Leaf	W23.52
E31	05	04	02	01	00	00	Type of the Parameter	Specifies the data type of the parameter	REF	16 bytes	TypeDefinition	Leaf	W23.52
E32	05	04	02	01	00	00	Interpretation	Specifies interpretation method to use	REF	16 bytes	InterpretationDefinition	Leaf	W23.52
E33	05	04	02	01	00	00	Data Type	Specifies the data type of the value	REF	16 bytes	TypeDefinition	Leaf	W23.52
E34	05	04	02	01	00	00	Strong Permittent of Object	Specifies the class of the referenced object	REF		ClassDefinition	Leaf	W23.52
E35	05	04	02	01	00	00	Weak Permittent of Object	Specifies the class of the referenced object	REF		ClassDefinition	Leaf	W23.52
E36	05	04	02	01	00	00	Underlying Segment Type	Specifies the underlying type	REF		TypeDefinition	Leaf	W23.52
E37	05	04	02	01	00	00	Type of Variable Array Element	Specifies the type of the array element	REF		TypeDefinition	Leaf	W23.52
E38	05	04	02	01	00	00	Type of Fixed Array Element	Specifies the type of the array element	REF		TypeDefinition	Leaf	W23.52
E39	05	04	02	01	00	00	Type of Set	Specifies the type of the set	REF		TypeDefinition	Leaf	W23.52

FIG.27

643	08	04	02	01	17	00	00	00	00	TypeDefinitionString_ElementType	String Element	Specifies the underlying type of the string	REF	WeakReference	TypeDefinition	Leaf	WPS 52
644	08	04	02	01	18	00	00	00	00	TypeDefinitionStream_ElementType	Stream Element	Specifies the underlying type of the stream	REF	WeakReference	TypeDefinition	Leaf	WPS 52
645	08	04	02	01	19	00	00	00	00	ResourceType	Resource	Specifies the underlying type	REF	WeakReference	TypeDefinition	Leaf	WPS 52
646	08	04	02	02	00	00	00	00	00	Set of Weak References	Set of Weak References		REF			Node	
647	08	04	02	02	01	00	00	00	00	PluginDescriptor	Plugin Descriptor	Describes plugins available for this object	REF	WeakReferenceSet/NA	Plugin Descriptor	Leaf	WPS 52
648	08	04	02	02	02	00	00	00	00	ParametersDefined	Parameters	Specifies parameters that can be used with operation	REF	WeakReferenceSet/variable	Parameters Definition	Leaf	WPS 52
649	08	04	02	02	03	00	00	00	00	DataDefinitions	Data Definitions	Identifies basic essence type supported by codes	REF	WeakReferenceSet/16 bytes	Data Definition	Leaf	WPS 52
650	08	04	02	03	00	00	00	00	00	Ordered Set of Weak References	Ordered Set of Weak References		REF			Node	
651	08	04	02	03	01	00	00	00	00	DegradableTo	Degradation of Properties	Identifies operations that can be substituted for this object	REF	WeakReference/variable	Operation Definition	Leaf	WPS 52
652	08	04	02	03	02	00	00	00	00	Member Types	Member Types	Specifies the types of the fields in the record	REF	WeakReference/16 bytes	TypeDefinition	Leaf	WPS 52
653	08	04	02	03	00	00	00	00	00	Class Relations	Class Relations		REF			Node	
654	08	04	02	03	01	00	00	00	00	Parent class	Parent Relations		REF			Node	
655	08	04	02	03	01	00	00	00	00	Parent Class	Parent Class	Identifies parent class	REF	WeakReference/16 bytes	Class Definition	Leaf	WPS 52
656	08	04	02	03	02	00	00	00	00	Child class	Child Class		REF			Node	
657	08	04	02	03	00	00	00	00	00	Instance of class	Instance of Class		REF			Node	
658	08	04	02	03	01	00	00	00	00	ObjClass	Class of The Object	Identifies the class of the object	REF	WeakReference/16 bytes	Class Definition	Leaf	WPS 52
659	08	04	02	03	02	00	00	00	00	Metadata object definitions	Metadata Object Definitions		REF			Node	
660	08	04	02	03	01	00	00	00	00	Class definition	Class Definition		REF			Node	

Code	SWPTE label					Data Element Name	Japanese Names	Data Element Definition	Code	Type	Value Length	Value Range	Model/Leaf	Defining Document
661	06 04 04 02 00 00 00 00	00	00	00	00	Property definition	Properties		REF				Note	
662	06 06 04 04 02 01 00 00	00	00	00	00	IsSearchable	Hints	Provides hints for database access	REF	Boolean	1 byte		Leaf	W25.52
663	06 06 04 04 02 02 00 00	00	00	00	00	IsOptional	Optional or Mandatory	Specifies whether property is optional or mandatory	REF	Boolean	1 byte		Leaf	W25.52
664	06 06 04 04 02 03 00 00	00	00	00	00	DefaultValue	Default Condition	Specifies default value if optional property is omitted	REF	Data Value	Variable		Leaf	W25.52
665	06 06 04 04 02 04 00 00	00	00	00	00	Localization	Local ID	Specifies local identification for property	REF	Unicode	4 bytes		Leaf	W25.52
666	06 06 04 04 03 00 00 00	00	00	00	00	Type definition	Type Definition		REF				Note	
667	06 06 04 04 03 01 00 00	00	00	00	00	Size	Size	Specifies the number of bytes in the integer	REF	Unit			Leaf	W25.52
668	06 06 04 04 03 02 00 00	00	00	00	00	IsSigned	Specified Size	Specifies if the integer is signed	REF	Boolean			Leaf	W25.52
669	06 06 04 04 03 03 00 00	00	00	00	00	TypeDefinitionExtension_ElementNames	Element Name	Specifies the names of the enumerated values	REF	StringArray			Leaf	W25.52
670	06 06 04 04 03 04 00 00	00	00	00	00	TypeDefinitionExtension_ElementValues	Element Name	Specifies the values	REF	Array of Int64			Leaf	W25.52
671	06 06 04 04 03 05 00 00	00	00	00	00	ElementCount	Number of Elements in The Array	Specifies the number of elements in the array	REF	Unicode			Leaf	W25.52
672	06 06 04 04 03 06 00 00	00	00	00	00	MemberNames	Member Names	Specifies the names of the fields in the record	REF	StringArray			Leaf	W25.52
673	06 06 04 04 03 07 00 00	00	00	00	00	TypeDefinitionExtensionElementon_ElementNames	Extension Name	Specifies the names of the enumerated values	REF	StringArray			Leaf	W25.52
674	06 06 04 04 03 08 00 00	00	00	00	00	TypeDefinitionExtensionElementon_ElementValues	Extension Name	Specifies the SWPTE labels or ALIDs	REF	AUDArray			Leaf	W25.52
675	06 06 04 04 04 00 00 00	00	00	00	00	Instance descriptions	Instance Description		REF				Note	

076	05	04	04	04	01	00	00	00	Description	Description	Provides informative description	URIcode String	variable	Leaf	W25.52
077	05	04	04	04	05	00	00	00	Container definitions	Container Definitions		REF		Node	
078	05	04	04	04	05	01	00	00	Essence identified	Essence Label	Specifies that the container label identifies essence with SURTE label or other AUD	Boolean	1 byte	Leaf	W25.52
079	05	04	05	05	00	00	00	00	Reserved code objects	Code Objects		REF		Node	
080	05	04	05	01	00	00	00	00	Relations to plugin code objects	Plugin Code Objects		REF		Node	
081	05	04	05	01	01	00	00	00	Items	Name	Specifies name of plugin	URIcode String	variable	Leaf	W25.52
082	05	04	05	01	02	00	00	00	Plugin Description/Identification	Plugin	Specifies SURTE label or GUID identifying plugin	AUD	16 bytes	Leaf	W25.52
093	05	04	05	01	03	00	00	00	Description	Description	Provides informative description	URIcode String	variable	Leaf	W25.52
094	05	04	05	01	04	00	00	00	Version Number	Version Number	Specifies maximum number of plugin code	Variant type	2 bytes	Leaf	W25.52
095	05	04	05	01	05	00	00	00	Version String	Version String	Specifies string version number of plugin code	URIcode String	variable	Leaf	W25.52
096	05	04	05	01	06	00	00	00	Manufacturer	Manufacturer	Specifies manufacturer of plugin	URIcode String	variable	Leaf	W25.52
097	05	04	05	01	07	01	00	00	Manufacturer ID	Manufacturer ID	Specifies SURTE label or GUID identifying manufacturer	AUD	16 bytes	Leaf	W25.52
098	05	04	05	01	08	04	00	00	Platform	Platform	Specifies hardware platform for plugin	AUD	16 bytes	Leaf	W25.52
099	05	04	05	01	09	00	00	00	MinPlatformVersion	Platform Version	Specifies minimum OS version for plugin	Variant type	2 bytes	Leaf	W25.52
100	05	04	05	01	0A	00	00	00	MaxPlatformVersion	Platform OS Version	Specifies maximum OS version for plugin	Variant type	2 bytes	Leaf	W25.52
091	05	04	05	01	0B	00	00	00	Engine	Plugin Engine	Specifies plugin engine	AUD	16 bytes	Leaf	W25.52
092	05	04	05	01	0C	00	00	00	MinEngineVersion	MinEngine Version	Specifies minimum plugin engine version	Variant type	2 bytes	Leaf	W25.52
093	05	04	05	01	0D	00	00	00	MaxEngineVersion	MaxEngine Version	Specifies maximum plugin engine version	Variant type	2 bytes	Leaf	W25.52

SNPTC Label						Data Element Name	Japanese Names	Data Element Definition	Unit	Value Length	Value Range	Model/Leaf	Defining Document
691 00 04 03 01 0E 00 00						Plugin API	Plugin API	Specifies plugin API	REF	16 bytes		Leaf	W25.52
695 00 04 05 01 0F 00 00						MinPlugin API	MinPlugin API	Specifies minimum API version	REF	2 bytes		Leaf	W25.52
696 00 04 05 01 10 00 00						MaxPlugin API	MaxPlugin API	Specifies maximum API version	REF	2 bytes		Leaf	W25.52
697 00 04 05 01 11 00 00						Software	Software	Specifies plugin can function without specialized hardware	REF	1 byte		Leaf	W25.52
698 00 04 05 01 12 00 00						Accelerator	Accelerator	Specifies plugin is optimized for specific hardware	REF	1 byte		Leaf	W25.52
699 00 04 05 01 13 00 00						Authentication	Authentication	Specifies whether the plugin uses authentication	REF	1 byte		Leaf	W25.52
700 00 04 05 02 00 00 00						Relations to application code objects	Relations to Application Code		REF			Node	
701 00 04 05 02 01 00 00						CompanyName	Company Name	Specifies the name of company supplying the application	REF	Variable		Leaf	W25.52
702 00 04 05 02 02 00 00						ProductName	Product Name	Specifies the application name	REF	Variable		Leaf	W25.52
703 00 04 05 02 03 00 00						ProductID	Product Number	Specifies the SNPTC label or GUID identifying the product	REF	10 bytes		Leaf	W25.52
704 00 04 05 02 04 00 00						ProductVersion	Product Version	Specifies the application version	REF	10 bytes		Leaf	W25.52
705 00 04 05 02 05 00 00						ProductVersionString	Product Version String	Specifies a printable product version string	REF	Variable		Leaf	W25.52
706 00 04 05 02 06 00 00						ToolKitVersion	Toolkit Version	Specifies version number of toolkit	REF	10 bytes		Leaf	W25.52
707 00 04 05 02 07 00 00						Platform	Platform	Specifies hardware and OS platform application runs on	REF	Variable		Leaf	W25.52
708 00 00 00 00 00 00 00						SPARTO-TEMPORAL	Class 7 Space and Time	Class 7 is reserved for information about space and time	REF			Node	

FIG.29

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Code	Label	Japanese Name	Data Element Name	Data Element Definition	Type	Value Length	Value Range	Model/Leaf	Defining Document
727	07 01 03 02 00 00 00	Frame Center Latitude (degrees)	Frame Center Latitude	Specifies the video frame center point geographic location in degrees of latitude. Positive values indicate northern hemisphere, negative values indicate southern hemisphere.	REFL Floating Point	4 bytes		Leaf	
728	07 01 05 03 00 00 00	Frame Center Latitude (degrees, centies)	Frame Center Latitude	As above	REFL Binary	4 bytes	As per SMPTE 331M (MIDI)	Leaf	
729	07 01 05 04 00 00 00	Frame Center Longitude (degrees)	Frame Center Longitude	Specifies the video frame center point geographic location in degrees of longitude. Positive values indicate eastern hemisphere, negative values indicate western hemisphere.	REFL Floating Point	4 bytes		Leaf	
730	07 01 05 05 00 00 00	Frame Center Longitude (degrees, centies)	Frame Center Longitude	As above	REFL Binary	4 bytes	As per SMPTE 331M (MIDI)	Leaf	
731	07 01 05 06 00 00 00	Frame Center Lat/Long	Frame Center Lat/Long	Specifies a video frame center point geographic location latitude and longitude.	REFL ISO Math char	14 bytes	Format is ddmmss.dddmmss.Y, where 'dd' is degrees latitude, 'mm' is	Leaf	
732	07 01 06 00 00 00 00	Relative Position	Relative Position	Relative positional information	REFL			Node	
733	07 01 06 01 00 00 00	Local Datum Relative Position	Local Datum Relative Position	The relative position of a local datum to another specified datum	REFL			Node	
734	07 01 05 01 01 00 00	Local Datum Relative Position Accuracy	Local Datum Relative Position Accuracy	The accuracy with which the measurement of relative position of the local datum is made	REFL Floating Point	4 bytes		Leaf	
735	07 01 06 02 00 00 00	Device Relative Position	Device Relative Position	The absolute position of the essence-capturing device	REFL			Node	
736	07 01 06 02 01 00 00	Device Relative Position Accuracy	Device Relative Position Accuracy	Accuracy of frame center coordinates	REFL Floating Point	4 bytes		Leaf	
737	07 01 06 02 02 00 00	Device Relative Position X (metres)	Device Relative Position X	Defined by the X-Y-Z coordinate position of the camera from a local datum reference position. Positive values indicate translations in which the camera has physically moved from right to left	REFL Floating Point	4 bytes		Leaf	
738	07 01 06 02 03 00 00	Device Relative Position Y (metres)	Device Relative Position Y	Defined by the X-Y-Z coordinate position of the camera from a local datum reference position. Positive values indicate translations in which the camera has physically moved in a physical	REFL Floating Point	4 bytes		Leaf	
739	07 01 06 02 04 00 00	Device Relative Position Z (metres)	Device Relative Position Z	Defined by the X-Y-Z coordinate position of the camera from a local datum reference position. Positive values shall indicate a translation in which the camera has physically moved towards the	REFL Floating Point	4 bytes		Leaf	
740	07 01 06 03 00 00 00	Subject Relative Position	Subject Relative Position	The position of the subject depicted in the essence relative to another specified datum	REFL			Node	
741	07 01 06 03 01 00 00	Subject Relative Position Accuracy (metres)	Subject Relative Position Accuracy	The accuracy with which the measurement of relative position of the subject is made	REFL Floating Point	4 bytes		Leaf	

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E3	E3 SHIPPE Label				Data Element Name	Japanese Names	Data Element Definition	E3 Type	Value Length	Value Range	Node/Leaf	Defining Document
760	07	01	10	02	00	00	Subject Absolute Heading (degrees)	Subject Absolute Heading	DEF	Heading Point	4 bytes	Type Node
761	07	01	10	02	00	00	Relative Subject Rate and Direction of Positional Change	Relative Subject Rate and Direction of Positional Change	DEF			Node
762	07	01	10	02	00	00	Subject Relative Speed (meters/sec)	Subject Relative Speed	DEF	Heading Point	4 bytes	Type Node
763	07	01	10	02	00	00	Subject Relative Heading (degrees)	Subject Relative Heading	DEF	Heading Point	4 bytes	Type Node
764	07	01	11	00	00	00	Angular Specifications	Angular Specifications	DEF			Node
765	07	01	11	01	00	00	Device angles	Device Angles	DEF			Node
766	07	01	11	01	00	00	Sensor Roll Angles (degrees)	Sensor Roll Angle	DEF	Heading point	4 bytes	Leaf
767	07	01	11	01	00	00	Angle to North (degrees)	Angle To North	DEF	Heading point	4 bytes	Leaf
768	07	01	11	03	00	00	Obliquity Angle (degrees)	Obliquity Angle	DEF	Heading point	4 bytes	Leaf
769	07	01	12	00	00	00	Subject Angles (degrees)	Subject Angles	DEF	Heading point	4 bytes	Leaf
770	07	01	13	00	00	00	Distance measurements	Distance Measurements	DEF			Node
771	07	01	13	01	00	00	Device to Subject distance	Device To Subject Distance From Device	DEF			Node
772	07	01	13	01	01	00	Slant Range (meters)	Angle To Subject	DEF	Heading point	4 bytes	Type Node
773	07	01	17	00	00	00	Dimensions	Distance	DEF			Node
774	07	01	17	01	00	00	Subject Dimensions	Subject Distances	DEF			Node

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Code	Supplemental	Data Element Name	Japanese Names	Data Element Definition	Unit	Type	Value Length	Value Range	Model/Label	Defining Document
793	07 01 20 01 04 00 00	Regions	Regions Within A Country	Information about Regions within a country		REF			Nb2	
794	07 01 20 01 04 01 00	Region of Object	Region Where Object is Depicted	Region in a country where object is depicted		REF	32 bytes max		Leaf	
795	07 01 20 01 04 02 00	Region of shoot	Region Where Shooting Took Place	Region within a country where shooting took place		REF	32 bytes max		Leaf	
796	07 01 20 01 04 03 00	Region of Sailing Characterized The Depicted Action Is Set In The Position (Place)	Region Where The Depicted Action Is Set In The Position	The region of the country where the depicted action is set in the production		REF	32 bytes max		Leaf	
797	07 01 20 01 04 04 00	Region or area of Copyright License	Region Where Copyright Is Licensed	The region of a country where copyright is licensed		REF	32 bytes max		Leaf	
798	07 01 20 01 04 05 00	Region or area of IP License	Region Where IP Rights Are Licensed	The region of a country where IP rights are licensed		REF	32 bytes max		Leaf	
799	07 01 20 01 05 00 00	Postal Address	Postal Address	Information about Postal Addresses		REF			Note	
800	07 01 20 01 05 01 00	Room Number	Room Number	The room number of an address		REF	32 bytes max		Leaf	
801	07 01 20 01 05 02 00	Street Number or Building Name	Street Number of Building Name	An address line for the address		REF	32 bytes max		Leaf	
802	07 01 20 01 05 03 00	Street	Street	An address line for the address		REF	32 bytes max		Leaf	
803	07 01 20 01 05 04 00	Postal Town	Postal Town	An address line for the address		REF	32 bytes max		Leaf	
804	07 01 20 01 05 05 00	City	City	The city of the address		REF	32 bytes max		Leaf	
805	07 01 20 01 05 06 00	State or Prefecture or County	State or Prefecture	The state, prefecture or county of the address		REF	32 bytes max		Leaf	
806	07 01 20 01 05 07 00	Postal Code	Postal Code	The ZIP or other postal code of the address		REF	32 bytes max		Leaf	
807	07 01 20 01 05 08 00	Country	Country	The country of the address		REF	32 bytes max		Leaf	

808	07	01	20	01	05	00	00	00	00	Postal Addresses Depicted in The Setting of a Production	Information about postal addresses depicted in the setting of a production	REF		Note
809	07	01	20	01	05	01	00	00	00	Setting Room Number	The room number of a depicted address	REF	12 bytes max	Leaf
810	07	01	20	01	05	02	00	00	00	Setting Street Number or Building Name	An address line for the depicted address	REF	12 bytes max	Leaf
811	07	01	20	01	05	00	00	00	00	Setting Street	An address line for the depicted address	REF	12 bytes max	Leaf
812	07	01	20	01	05	04	00	00	00	Setting Town	An address line for the depicted address	REF	12 bytes max	Leaf
813	07	01	20	01	05	05	00	00	00	Setting City	The city of the depicted address	REF	12 bytes max	Leaf
814	07	01	20	01	05	06	00	00	00	Setting State or Province or County	The state, province or county of the depicted address	REF	12 bytes max	Leaf
815	07	01	20	01	05	07	00	00	00	Setting Postal Code	The ZIP or other postal code of the depicted address	REF	12 bytes max	Leaf
816	07	01	20	01	05	08	00	00	00	Setting Country	The country of the depicted address	REF	12 bytes max	Leaf
817	07	01	20	01	05	09	00	00	00	Setting Description	eg. 'A clearing in a wood' or 'Fiddler's living room'	REF		Type Node
818	07	01	20	01	05	09	01	00	00	Setting Description	eg. 'A clearing in a wood' or 'Fiddler's living room'	REF	127 chars max	Leaf
819	07	01	20	01	10	00	00	00	00	Electronic Address	Information about electronic addresses	REF		Note
820	07	01	20	01	10	01	00	00	00	Telephone Number	Telephone number	REF	12 bytes max	Leaf
821	07	01	20	01	10	02	00	00	00	Fax Number	Fax number	REF	12 bytes max	Leaf
822	07	01	20	01	10	03	00	00	00	E-Mail Address	e-mail address	REF	12 bytes max	Leaf
823												REF		
824	07	02	00	00	00	00	00	00	00	Date and Time	Information about dates and times	REF		Note
825	07	02	01	00	00	00	00	00	00	Material Date and Time	Information about dates and times relating to copying material	REF		Note

Line #	SNIPTE label	Data Element Name	Japanese Names	Data Element Definition	Type	Value Length	Value Range	Model/Leaf	Defining Document
826 07 02 01 00 00 00 00	Operational Date-Time stamps	Operational Date-Time	Operating date and time information (i.e. timestamp)	OPER					
827 07 02 01 01 00 00 00	Creation Date-Time stamp	Creation Date-Time	Time stamp for original material	OPER				Type Leaf	
828 07 02 01 01 01 00 00	Creation Date-Time stamp	Creation Date-Time	Time stamp for original material	OPER	ULSOF	1 bytes	Binary mapping of 64-bit timestamp plus 8 bytes, 1st first	Leaf	
829 07 02 01 01 02 00 00	Last modified Date-Time stamp	Last Modified Date-Time	Time stamp for last modification of material	OPER				Type Leaf	
830 07 02 01 01 02 01 00 00	Last modified Date-Time stamp	Last Modified Date-Time	Time stamp for last modification of material	OPER	ULSOF	1 bytes	Binary mapping of 64-bit timestamp plus 8 bytes, 1st first	Leaf	
831 07 02 01 01 03 00 00 00	User defined Date-Time stamp	User Defined Date-Time	Time stamp application defined by user application	OPER				Type Leaf	
832 07 02 01 01 03 01 00 00	User defined Date-Time stamp	User Defined Date-Time	Time stamp application defined by user application	OPER	ULSOF	1 bytes	Binary mapping of 64-bit timestamp plus 8 bytes, 1st first	Leaf	
833 07 02 01 02 00 00 00 00	Absolute Date and Time	Absolute Date and Time	Absolute date and time information	OPER				Node	
834 07 02 01 02 01 00 00 00	Start Date Time	Production Start Date Time	Absolute time at start of creating the shot or clip	OPER	ULSOF	1 bytes	Binary mapping of 64-bit timestamp plus 8 bytes, 1st first	Leaf	
835 07 02 01 02 02 00 00 00	End Date Time	Production End Date Time	Absolute time at end of creating the shot or clip	OPER	ULSOF	1 bytes	Binary mapping of 64-bit timestamp plus 8 bytes, 1st first	Leaf	
836 07 02 01 02 03 00 00 00	Segment Start Date and Time	Segment Start Date and Time	Absolute time at the start of a segment within a shot or clip	OPER	ULSOF	1 bytes	Binary mapping of 64-bit timestamp plus 8 bytes, 1st first	Leaf	
837 07 02 01 02 04 00 00 00	Segment End Date and Time	Segment End Date and Time	Absolute time at the end of a segment within a shot or clip	OPER	ULSOF	1 bytes	Binary mapping of 64-bit timestamp plus 8 bytes, 1st first	Leaf	
838 07 02 01 03 00 00 00 00	Relative Date and Time	Relative Date and Time	Relative date and time information	OPER				Node	
839 07 02 01 03 01 00 00 00	Start Date Time	Media Start Date Time	Media time at start of shot or clip	OPER	ULSOF	1 bytes	Binary mapping of 64-bit timestamp plus 8 bytes, 1st first	Leaf	
840 07 02 01 03 02 00 00 00	End Date Time	Media End Date Time	Media time at end of shot or clip	OPER	ULSOF	1 bytes	Binary mapping of 64-bit timestamp plus 8 bytes, 1st first	Leaf	

FIG.33

841	07	02	01	03	00	00	00	00	00	00	Segment Start Date and Time	Segment Start Date and Time	Media time at the start of a segment within a shot or clip	REF	ULSF	8 bytes	Bitwise mapping of 64-bit timecode into 8 bytes, lsb first	Leaf
842	07	02	01	03	04	00	00	00	00	00	Segment End Date and Time	Segment End Date and Time	Media time at the end of a segment within a shot or clip	REF	ULSF	8 bytes	Bitwise mapping of 64-bit timecode into 8 bytes, lsb first	Leaf
843	07	02	02	00	00	00	00	00	00	00	Material Durations	Time Durations	Information about time durations relating to captured material	REF				Node
844	07	02	02	01	00	00	00	00	00	00	Absolute Durations	Absolute Time Durations	Absolute time duration information	REF				Node
845	07	02	02	01	01	00	00	00	00	00	Time Duration	Time Duration	Length of the content in Time units	REF	ULSF	4 bytes	Bitwise mapping of 64-bit timecode into 8 bytes, lsb first	Leaf
846	07	02	02	01	02	00	00	00	00	00	Segment Duration	Segment Duration	Duration of a segment within a shot or clip in Time units	REF	ULSF	4 bytes	Bitwise mapping of 64-bit timecode into 8 bytes, lsb first	Leaf
847	07	02	02	01	03	00	00	00	00	00	Frame Count	Frame Count	Length of the content in film frames	REF	ULSF	4 bytes	Bitwise mapping of 64-bit timecode into 8 bytes, lsb first	Leaf
848	07	02	02	01	04	00	00	00	00	00	Segment frame count	Segment Frame Count	Duration of a segment within a shot or clip in film frames	REF	ULSF	4 bytes	Bitwise mapping of 64-bit timecode into 8 bytes, lsb first	Leaf
849	07	02	02	01	05	00	00	00	00	00	Textless black duration	Textless Black Duration	eg. 1 minutes after end of programme	REF	ULSF	4 bytes	Bitwise mapping of 64-bit timecode into 8 bytes, lsb first	Leaf
850	07	02	02	02	00	00	00	00	00	00	Relative Durations	Relative Durations	Relative time duration information	REF				Node
851	07	02	02	02	01	00	00	00	00	00	Time Duration	Time Duration	Relative length of the content in Time units	REF	ULSF	4 bytes		Leaf
852	07	02	02	02	02	00	00	00	00	00	Segment Duration	Segment Duration	Duration of a segment within a shot or clip in Time units	REF	ULSF	4 bytes		Leaf
853	07	02	02	02	03	00	00	00	00	00	Frame Count	Film Frame Interval	Length of the content in film frames	REF	ULSF	4 bytes		Leaf
854	07	02	02	02	04	00	00	00	00	00	Segment frame count	Segment Frame Interval	Duration of a segment within a shot or clip in film frames	REF	ULSF	4 bytes		Leaf
855	07	02	02	03	00	00	00	00	00	00	Rights Date and Time	Rights Date and Time	Dates and Times relating to Copyright and Intellectual Property Rights	REF				Node
856	07	02	03	01	00	00	00	00	00	00	Copyright Date and Time	Copyright Date and Time	Dates and Times relating to Copyright	REF				Node
857	07	02	03	02	00	00	00	00	00	00	IP Rights Date and Times	IP Rights Date and Time	Dates and Times relating to Intellectual Property Rights	REF				Node
858	07	02	03	03	00	00	00	00	00	00	License start date and time	License Start Date and Time	License start date and time	REF	ULSF	8 bytes	Bitwise mapping of 64-bit timecode into 8 bytes, lsb first	Leaf

Code	SWAPTE Label				Data Element Name	Japanese Names	Data Element Definition	Unit	Type	Value Length	Value Range	Model/Laef	Defining Document
	01	02	03	04									
659	07	02	03	00	Option start date and time	Option Start Date and Time	Option start date and time	OPTION	ULSDF	8 bytes	Bitwise mapping of 64-bit timecode into 8 bytes, lsb first	Leaf	
660	07	02	03	00	License end date and time	License End Date and Time	License end date and time	OPTION	ULSDF	8 bytes	Bitwise mapping of 64-bit timecode into 8 bytes, lsb first	Leaf	
661	07	02	03	00	Option end date and time	Option End Date and Time	Option end date and time	OPTION	ULSDF	8 bytes	Bitwise mapping of 64-bit timecode into 8 bytes, lsb first	Leaf	
662	07	02	04	00	Rights Durations	Rights Durations	Information about the duration of a copyright or intellectual property license	OPTION				Node	
663	07	02	04	00	Copyright Durations	Copyright Durations	Information about the duration of a copyright license	OPTION				Node	
664	07	02	04	00	IP Rights Durations	IP Rights Durations	Information about the duration of an intellectual property license	OPTION				Node	
665	07	02	04	00	License duration	License Duration	Information about the duration of a license	OPTION	ULSDF	8 bytes	Bitwise mapping of 64-bit timecode into 8 bytes, lsb first	Leaf	
666	07	02	04	00	Option duration	Option Duration	Information about the duration of a license	OPTION	ULSDF	8 bytes	Bitwise mapping of 64-bit timecode into 8 bytes, lsb first	Leaf	
657	07	02	05	00	Cataloguing Date and Time	Cataloguing Date and Time	Information about cataloguing and indexing	OPTION				Node	
668	07	02	05	00	Creation Date and Time	Creation Date and Time	The creation date and time of the data set	OPTION	ULSDF	8 bytes	Bitwise mapping of 64-bit timecode into 8 bytes, lsb first	Leaf	
669	07	02	05	00	Last Modified	Last Modified Date	Date and time of last modification	OPTION	ULSDF	8 bytes	Bitwise mapping of 64-bit timecode into 8 bytes, lsb first	Leaf	
670	07	02	06	00	Event Date and Time	Event Date and Time	Date and time information relating to events	OPTION				Node	
671	07	02	06	00	Absolute Date and Time	Absolute Event Date and Time	Absolute Date and Time information relating to events	OPTION				Node	
672	07	02	06	00	Absolute start times	Absolute Event Start Times	Absolute Date and Time information relating to the start of events	OPTION				Node	
673	07	02	06	00	Project Master Start Date and Time	Project Start Date and Time	The absolute beginning date and time of the project or mission	OPTION	ULSDF	8 bytes	Bitwise mapping of 64-bit timecode into 8 bytes, lsb first	Leaf	

874	07	02	06	01	01	02	00	00	Scene Start Date and Time	The absolute beginning date and time of the scene, as shot.	REF	ULSIF	8 bytes	Source mapping of 64-bit timescode into 8 bytes, lsb first	Leaf
875	07	02	06	01	01	03	00	00	Shot Start Date and Time	The absolute beginning date and time of the shot.	REF	ULSIF	8 bytes	Source mapping of 64-bit timescode into 8 bytes, lsb first	Leaf
876	07	02	06	01	01	10	00	00	Broadcast Start Date and Time	Absolute start date and time of a specific broadcast.	REF	ULSIF	8 bytes	Source mapping of 64-bit timescode into 8 bytes, lsb first	Leaf
877	07	02	06	01	02	00	00	00	Absolute End Times	Absolute Date and Time information relating to the end of events.	REF				Node
878	07	02	06	01	02	01	00	00	Project End Date and Time	The absolute ending date and time of the project or mission.	REF	ULSIF	8 bytes	Source mapping of 64-bit timescode into 8 bytes, lsb first	Leaf
879	07	02	06	01	02	02	00	00	Scene End Date and Time	The absolute ending date and time of the scene, as shot.	REF	ULSIF	8 bytes	Source mapping of 64-bit timescode into 8 bytes, lsb first	Leaf
880	07	02	06	01	02	03	00	00	Shot End Date and Time	The absolute ending date and time of the shot.	REF	ULSIF	8 bytes	Source mapping of 64-bit timescode into 8 bytes, lsb first	Leaf
881	07	02	06	01	02	10	00	00	Broadcast End Date and Time	Absolute end date and time of a specific broadcast.	REF	ULSIF	8 bytes	Source mapping of 64-bit timescode into 8 bytes, lsb first	Leaf
882	07	02	06	02	00	00	00	00	Relative Date and Time	Relative Date and Time information relating to events, by two days and first hours after.	REF				Node
883	07	02	06	02	01	00	00	00	Relative start times	Relative Date and Time information relating to the start of events.	REF				Node
884	07	02	06	02	01	01	00	00	Project Mission Start Date and Time	The relative beginning date and time of the project or mission.	REF	ULSIF	8 bytes	Source mapping of 64-bit timescode into 8 bytes, lsb first	Leaf
885	07	02	06	02	01	02	00	00	Scene Start Date and Time	The relative beginning date and time of the scene, as shot.	REF	ULSIF	8 bytes	Source mapping of 64-bit timescode into 8 bytes, lsb first	Leaf
886	07	02	06	02	01	03	00	00	Shot Start Date and Time	The relative beginning date and time of the shot.	REF	ULSIF	8 bytes	Source mapping of 64-bit timescode into 8 bytes, lsb first	Leaf
887	07	02	06	02	01	10	00	00	Broadcast Start and Time	Relative start time of a specific broadcast within a period programme.	REF	ULSIF	8 bytes	Source mapping of 64-bit timescode into 8 bytes, lsb first	Leaf
888	07	02	06	02	02	00	00	00	Relative End Times	Relative Date and Time information relating to the end of events.	REF				Node
889	07	02	06	02	02	01	00	00	Project End Date and Time	The relative ending date and time of the project or mission.	REF	ULSIF	8 bytes	Source mapping of 64-bit timescode into 8 bytes, lsb first	Leaf
890	07	02	06	02	02	02	00	00	Scene End Date and Time	The relative ending date and time of the scene, as shot.	REF	ULSIF	8 bytes	Source mapping of 64-bit timescode into 8 bytes, lsb first	Leaf
891	07	02	06	02	02	03	00	00	Shot End Date and Time	The relative ending date and time of the shot.	REF	ULSIF	8 bytes	Source mapping of 64-bit timescode into 8 bytes, lsb first	Leaf

[illegible]

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C S S	SNPTE Label				Data Element Name	Japanese Name	Data Element Definition	Line #	Type	Value Length	Value Range	Node/Leaf	Defining Document
	1	2	3	4									
915	07	03	01	00	00	Encoding Delay	Encoding Delay Time	Information about delay duration in encoding processes	REF			Node	
916	07	03	01	00	00	Decoding Delay	Decoding Delay Time	Information about delay duration in decoding processes	REF			Node	
917	07	03	01	02	01	Buffer Delay	Buffer Delay Time	Buffer delay per definition in SDI-CP (EIA)	REF	as per standard		Leaf	
918	07	03	01	00	00	Latency	Latency Information	Information about response time	REF			Node	
919	07	03	01	00	00	Temporal steps (Shuttering etc) (PLACEMENTS)	Information About Temporal Characteristics	Information about temporal characteristics of processes	REF			Node	
920	07	03	01	00	00	Shutter characteristics (placement)	Shutter Characteristics	Shutter characteristics	REF			Node	
921	07	03	02	00	00	Shutter speed (placement)	Shutter Speed	Shutter speed	REF			Node	
922	07	03	03	00	00	Shutter Gating (placement)	Shutter Gating Characteristics	Shutter Gating characteristics	REF			Node	
923	0E	00	00	00	00	USER ORGANISATION (MESSAGE)	Class 14 User Data	Class 15 is reserved for user organisation registered metadata	REF			Node	
924	0E	01	00	00	00	Publicly registered user organisation metadata	Co-Used Registered Metadata		REF			Node	
925	0E	02	00	00	00	Privately registered user organisation metadata	Private Metadata		REF			Node	
926	0E	02	01	00	00	DoD Metadata	Metadata for U.S. Department of Defense Agencies	Metadata for U.S. Department of Defense agencies.	REF			Node	
927	0E	02	02	00	00	UAV Metadata	UAV Metadata	UAV Metadata	REF			Node	
928	0E	02	03	00	00	ROIA Metadata	ROIA Metadata	ROIA Metadata	REF			Node	
929	0E	02	01	00	00	ROIA Closed Caption Set	ROIA Metadata From ROIA Closed Caption	ROIA Metadata Set containing metadata information from existing closed caption	REF			Node	
930	0E	02	00	00	00	EXPERIMENTAL METADATA	Class 15 Experimental Metadata	Class 15 Metadata is for experimental metadata. Users may create their own structures consistent with the metadata definition standard	REF			Node	

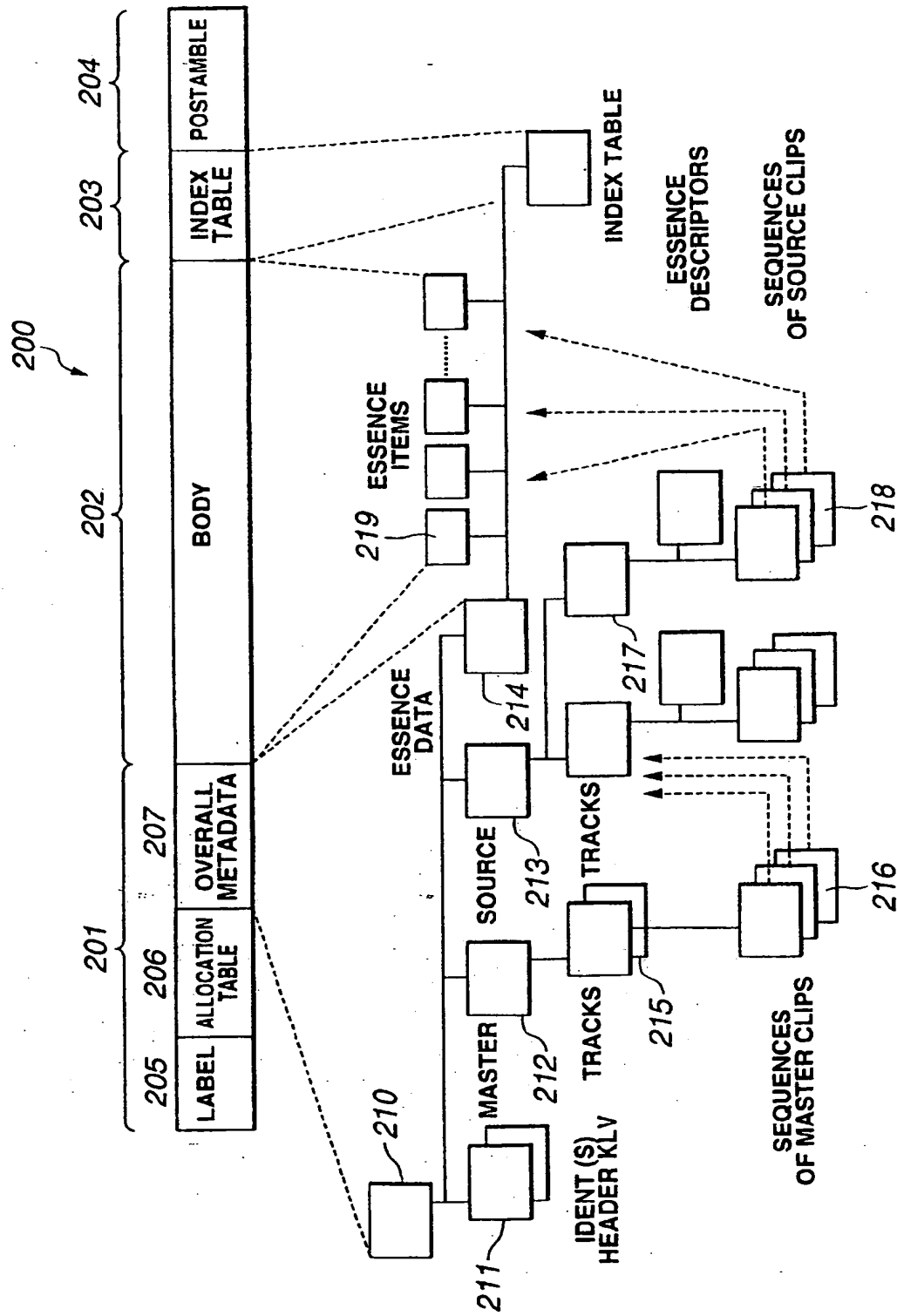


FIG. 37

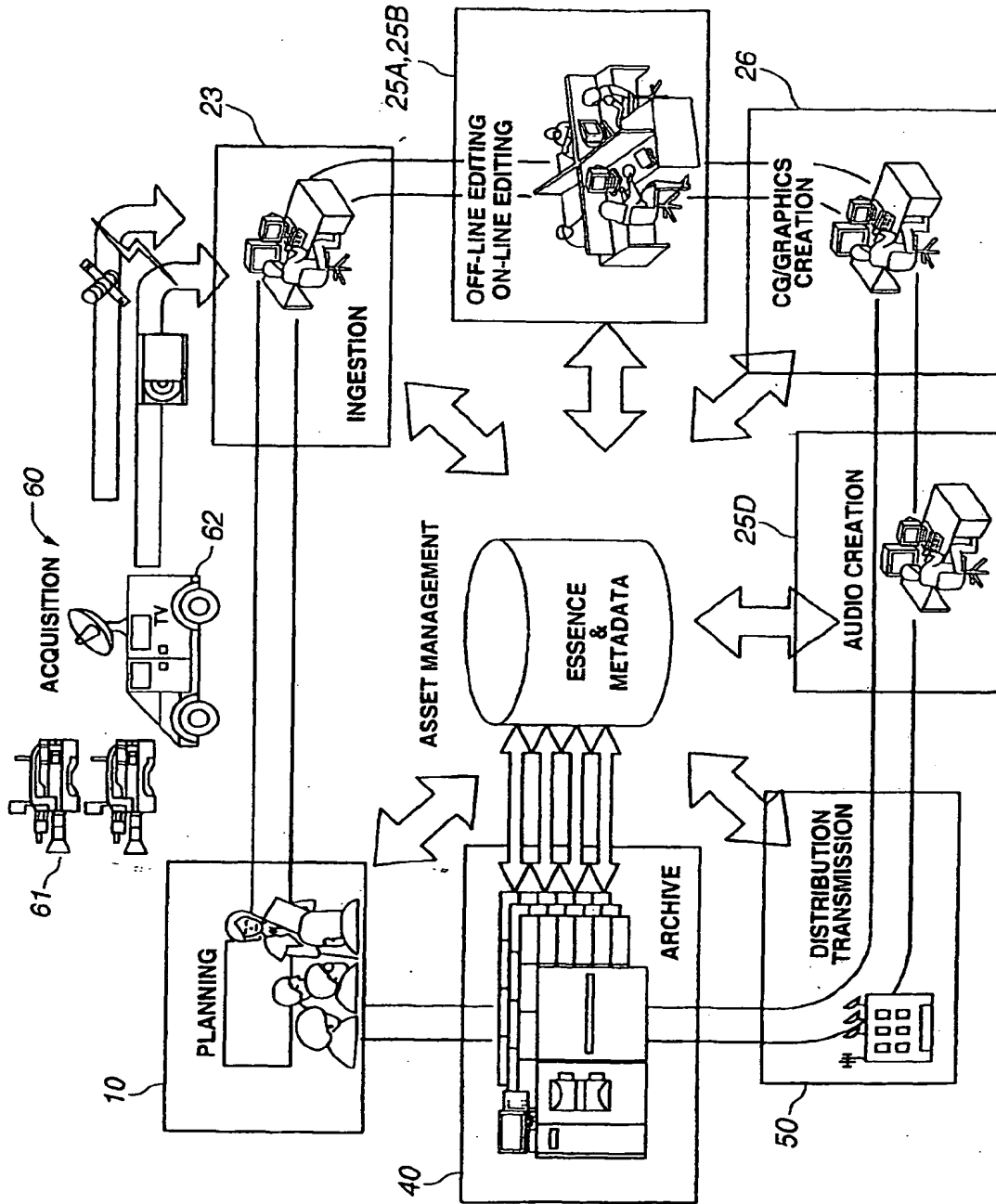


FIG. 38

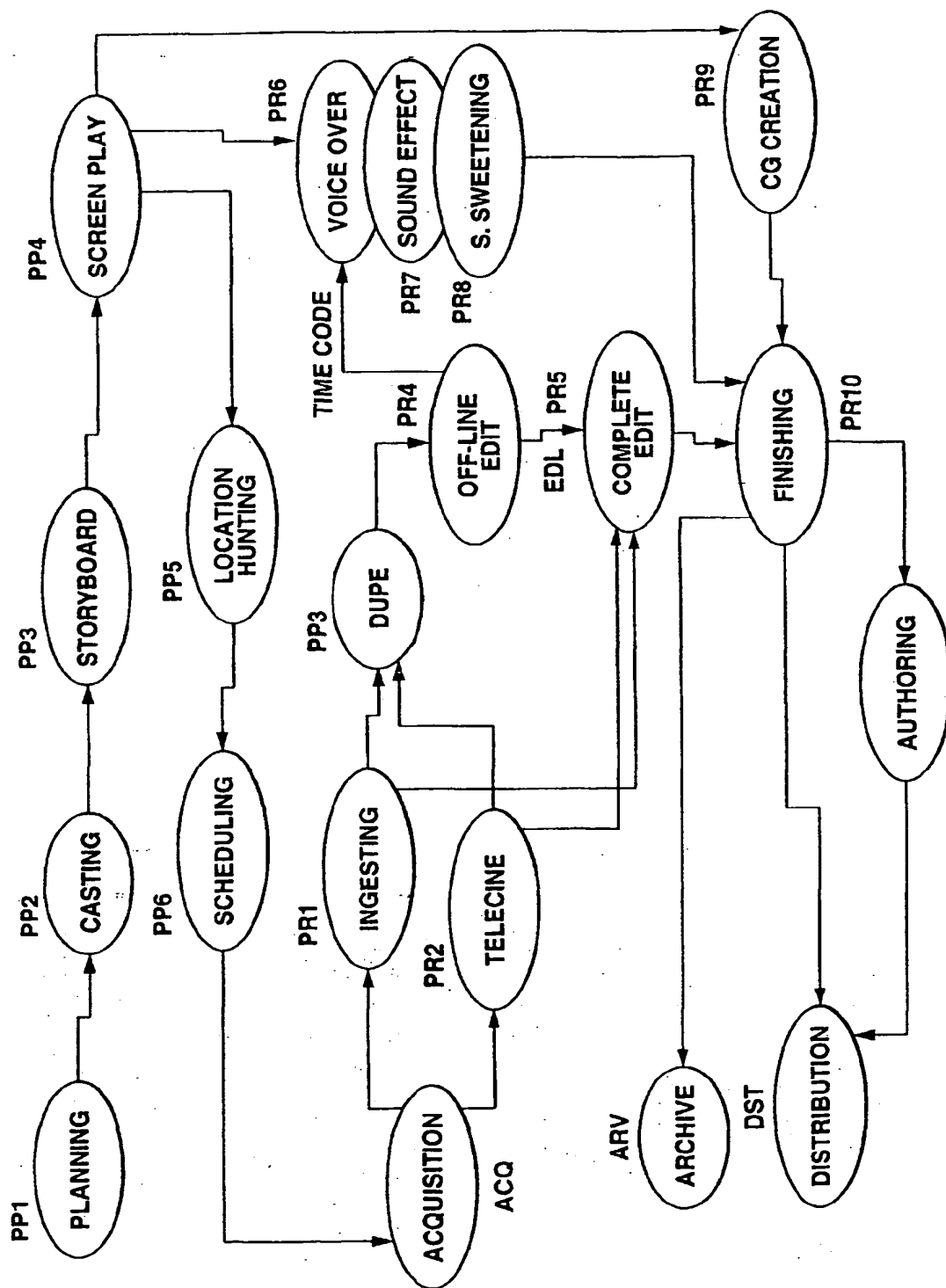


FIG.39

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP01/03100

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl.⁷ H04N 5/91, 5/92

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl.⁷ H04N 5/91-5/956Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2001
Kokai Jitsuyo Shinan Koho 1971-2001 Jitsuyo Shinan Toroku Koho 1996-2001

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
PX	JP, 2000-224257, A (Information Broadcasting Laboratories, Inc.), 11 August, 2000 (11.08.00), & WO, 00/45536, A1 & EP, 1073223, A1	1-32
PX	JP, 2001-502461, A (Avid Technologies, Inc.), 20 February, 2001 (20.02.01), & WO, 97/39411, A1 & EP, 895623, A1 & US, 5852435, A	1-32
PX	JP, 2001-75846, A (Canon Inc.), 23 March, 2001 (23.03.01) (Family: none)	1-32

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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Date of the actual completion of the international search
21 June, 2001 (21.06.01)Date of mailing of the international search report
03 July, 2001 (03.07.01)Name and mailing address of the ISA/
Japanese Patent Office

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Form PCT/ISA/210 (second sheet) (July 1992)

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